

VWR INTERNATIONAL

CLEANROOM AND CONTROLLED ENVIRONMENTS

2015-2017



CLEANROOMS | STERILE ROOMS
CONTROLLED ENVIRONMENTS
Products and Services

Quantus[®]: the attractive choice for high performance reusable garments



With the Quantus[®] garment range:

- You will find suitable garments for any application – whether in a cleanroom, sterile room or controlled production environments
- You will benefit from demonstrably outstanding technical and functional fabric characteristics
- You will receive comprehensive documentation about the fabric and each piece of garment
- All cleanroom classes are covered

1 ISO 3	10 ISO 4	100 ISO 5 A/B	1000 ISO 6	10 000 ISO 7 C	100 000 ISO 8 D
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For further information or a quotation, tailored to your requirements, please contact us!

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Please refer to vwr.com for full details, or contact your local sales office for printed copy.



SYMBOLS

These symbols indicate important product features:

-  For cytotoxic drug production
-  Electrostatic discharge
-  HACCP-certified
-  ISO 9001-certified
-  RS232 interface
-  Autoclavable
-  Sterile
-  USB connection
-  Selected for you
-  Warranty
-  IP Classification



SOLUTIONS FOR YOUR CLEANROOMS AND CONTROLLED ENVIRONMENTS

Dear Valued Customer,

Working in controlled environments requires the highest degree of expertise, experience and diligence in order to ensure efficient and safe contamination control.

Mature concepts and solutions need to be in place in order to reach efficient processes and contamination control that covers both safety of products and personnel.

As a result, serving to cleanrooms and controlled environments must be more than just providing products. In addition to a comprehensive range of products, customer individual consultation and services, as well as a sophisticated supply concept must be an integral part of a supplier's overall performance.

For us, the analysis of our customer's specific requirements and their on-site circumstances are a pre-requisite for a successful customer relationship. Depending on the amount of products and services needed, this may also include an initial gap analysis combined with an inspection of plant and cleanrooms.

The VWR controlled environment solutions team is your reliable partner in terms of products, services and expertise.

With a broad, high quality product portfolio of more than 8000 products, you get the full range: Cleanroom consumables, such as wipes, gloves, paper, packaging and disposable garments, reusable garments plus cleaning equipment and detergents, flooring, equipment and technical appliances.

We are supporting you, not only by professional advice on our product portfolio, but by setting up an optimal supply concept that is tailor-made to your requirements and on-site circumstances.

OUR VALUE PROPOSITION FOR CES, SAFETY AND PRODUCTION CHEMICALS

We are a team of experienced experts and customer consultation is one of our core competences. We take personal care of your needs.

So do not hesitate to contact one of our team members.

- ➔ **Global network** of suppliers and partners
- ➔ **Full service solutions** for cleanrooms and controlled environments
- ➔ **Highly skilled (sales) specialists and high level of flexibility** to turn your needs into a custom-made product and supply concept
- ➔ **Global sourcing** to enable customised product development directly with the manufacturer and to guarantee local quality control
- ➔ **Supply chain excellence** to provide 100% security of supply and JIT deliveries
- ➔ **Comprehensive portfolio** of premium products and services



**We take personal
care of your needs**

FOR YOUR SECURITY – OUR QUALITY MANAGEMENT SYSTEM

Our aim is to ensure the consistent high quality of our products, processes and services. A significant requirement for this is the permanent implementation of an effective and efficient quality management system.

We measure the successful and continuing improvement of our enterprise and quality targets against defined process indicators. These are adapted and further developed in response to on-going changes in your company and in the market for controlled environment solutions.

For quality and certification enquiries email: EUQualitySupport@de.vwr.com

SERVICES

To ensure integrated supply and consultancy, we offer a number of services and an optimum supply concept for all your requirements in addition to the comprehensive range of products.

The basis of every service is an analysis of your specific requirements and on-site circumstances. This includes a gap analysis combined with an inspection of plant and cleanrooms. As a result our services are not static; instead they are adapted as required to changing circumstances.

With our extensive portfolio of differentiated services, we can help you to remove the burden of ancillary tasks to move faster and devote more time to your work.

Our added value for your specific requirements:

- Logistics and supply chain services
- Development of customised products
- Change control notifications
- CleanPack®: Custom cleanroom packaging and irradiation services
- Decontamination and leasing of cleanroom garments
- Customer individual training
- Gowning room concepts
- Cleaning, disinfection and hygiene plans
- Wipe and glove plans

We provide custom-made support, exactly where you need it, to help you:

- Power productivity
- Gain efficiencies in your processes
- Improve quality, safety and regulatory compliance so saving costs



SERVICES IN LOGISTICS AND SUPPLY CHAIN



Logistics is where VWR ensures the permanent availability of defined cleanroom consumables, and additionally assumes all administrative and logistic functions:

- Sourcing and procurement solutions
- Logistic support
- Inventory management
- 'On-Time, In-Full' / 'Just-in-Time' delivery
- Consumption planning
- Equipment management
- Permanent stock keeping of standard products
- Controlled stock moving and tracking via SAP barcode system
- GMP-compliant sterile goods handling
- Electronic ordering up to complete system integration

Your benefits:

- You have 100% security of supply as well as absolute transparency over available material stock levels
- You gain efficiencies in your processes
- Cost saving potentials through the optimisation of interfaces between purchasing, storage and production
- Freedom for yourself to entirely concentrate on your core business

DEVELOPMENT OF CUSTOMISED PRODUCTS

Are you looking for specific products that fit best with your individual requirements and you cannot find it in our portfolio? Then let us know!

Through the combination of our long-term experience, in-depth knowledge of controlled production environments and a strong global suppliers' network, we are able to jointly develop the product that fits best with your application.

Please contact us for further information.



Myoverall
custom-made
cleanroom garments

Myglove
custom-made
cleanroom gloves

Mywipe
custom-made
cleanroom wipes

Myproduct
custom-made
cleanroom products

CHANGE NOTIFICATION SERVICES FROM VWR

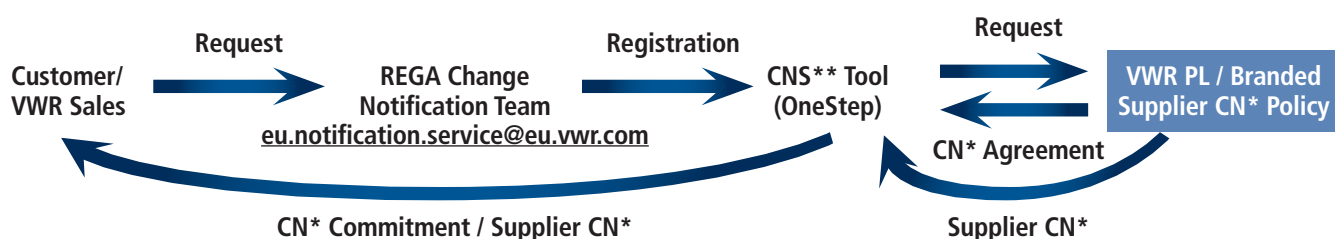
Most companies nowadays are obliged to ensure their products are released into the market with consistent quality and meeting their specifications. For this reason, companies go through a lot of effort to validate materials, equipment and processes used in manufacturing, which in turn means that they need to be aware of any change that may alter the properties or performance of a material used in manufacturing or testing, or which will impact manufacturing-related documentation.

Understanding the importance of providing notification of changes to our customers, VWR has established a Change Notification Service which manages the tools, our customer's requests and our supplier's change notifications.

VWR's Regulatory Affairs Department facilitates the communication of change notices from our suppliers to our customers. VWR's support requires the prior registration of the customer and the relevant products into our Change Notification Tool. If VWR receives a change notification for one of the products registered, the customer will be notified. Upon registration, customers will receive a confirmation including a summary of the manufacturer's commitment on change notification for that specific product.

Step by step process description

- 1 The customer will define, together with VWR, a list of critical products which need to be registered for change notification, providing the customer's and VWR's material number to eu.notification.service@eu.vwr.com.
- 2 VWR will contact the manufacturer/supplier of the products and sign a Change Notification Agreement.
- 3 VWR will register the customer and the products and send a 'declaration' which includes a summary of the supplier's commitment on change notification.
- 4 When VWR receives a notification from one of the articles registered, it will be sent to the relevant customers, indicating their internal customer material number.
- 5 VWR's Change Notification Team will verify that the customer has received the change and assist with any further steps. This could include providing samples or specifications for new products, the purchase of extra products, or just helping to validate that the change will have no effect on the customer's process.



Key characteristics of VWR's Change Notification Service

- Customer-centric solution
- Innovative tool and high service level
- Reporting possibilities
- Simple to use: Customer feedback generated by one mouse click
- Reliability and traceability
- Faster sending of mass change notifications
- Automatic registration of all generated documents
- Complete audit trail/process fully auditable by customers

* CN: Change Notification

** CNS: Change Notification Service

CLEANPACK®: CUSTOM CLEANROOM PACKAGING AND IRRADIATION SERVICES

CleanPack® services gain you more time for your core production activities. We customise your products according to your special requirements.

VWR has two cleanroom suites that conform to Class 100/ISO Class 5 and Class 10 000/ISO Class 7. In these cleanrooms we handle and customise products complying with the highest standards to meet your needs.

For example, products that are not originally cleanroom compliant can be cleaned and packaged for use in a cleanroom. We can also customise or pack existing cleanroom products to adapt them to your individual needs:

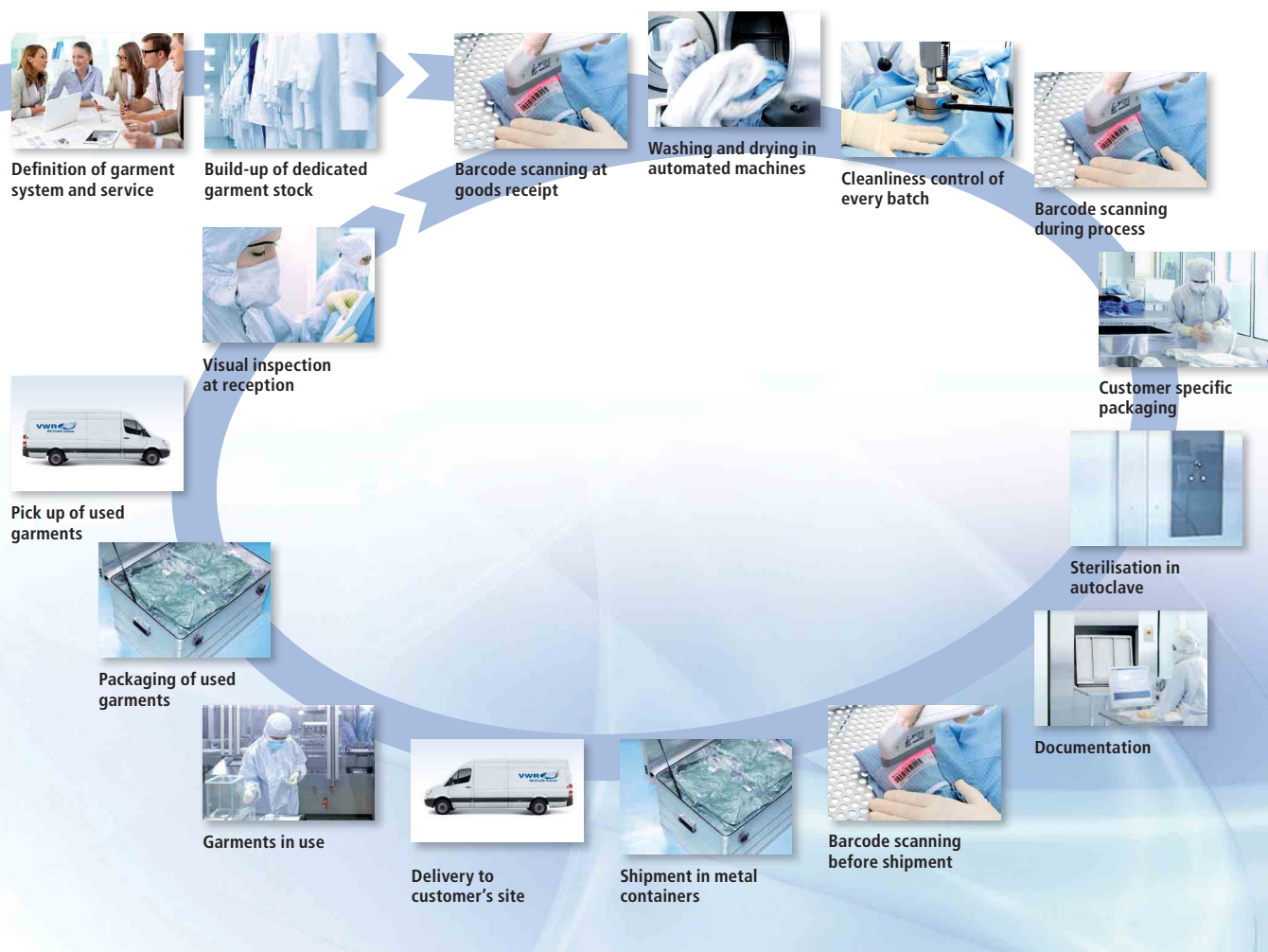
- Gamma irradiation or EtO service
- Clean air washing of products for use in cleanrooms
- Re-packaging of bulk products in smaller packing units or sizes
- Packaging of single items in bulk packages
- Assembly of ready to use kits

We offer a wide range of bespoke services for your individual production environment. Please contact us for more detailed information and to discuss the best solution for your individual requirements.



1. Re-packaging of bulk items into smaller packs
2. Bulk packing of individual items
3. Adding additional layers of packaging
4. Assembly of ready to use kits
5. Customised presentations, e.g. colour coded packaging
6. Gamma irradiation or EtO service
7. Storage

DECONTAMINATION AND LEASING OF CLEANROOM GARMENTS



One-stop shop for garments and leasing service, for certainty about the cleanroom capability of your garments at all times.

You define your specific requirements for a garment concept. We advise on the choice of suitable materials, models and styles – for both functionality and comfort, considering both technical and economic features.

We help you to create a suitable garment concept and to integrate the management of cleanroom garments into your internal processes. This also includes the optimisation of already existing garment programmes.

We recommend a suitable leasing partner who is specialised in the expert decontamination and sterilisation of cleanroom garments and will make you a professional leasing proposal including wardrobe service.

With our leasing partners we offer you the following services:

- On-site collection of used cleanroom garments
- Decontamination and sterilisation using up-to-date procedures
- Marking of garments for traceability and stock control (electronic tracking using barcoding is possible)
- Expert repairs or no charge replacement of damaged garments
- Packaging of decontaminated garments under cleanroom conditions
- Return of garments including wardrobe service

CUSTOMER INDIVIDUAL TRAINING

The qualification of your personnel is a significant factor in quality assurance of the production process. New personnel, and those already working in the cleanroom, must constantly adapt themselves to the requirements and circumstances of cleanroom operation, and must, in this respect, be regularly trained.

Training is not merely a matter of echoing the specific work content and guidelines on behaviour, but specialist knowledge must also be conveyed and refreshed. This motivates and simultaneously increases the efficiency of your staff.

Benefits to you:

- Your own personnel spend less time in preparing, executing and following up training
- Psychological effect: The acceptance of external trainers is often greater than that of colleagues
- Staff who have undergone frequent training experience new content and methods of presentation



Overview of basan training and seminars

- **Hygiene** (definition, regulations and guidelines; various aspects of hygiene; measures)
- **Basics of microbiology** (overview of microorganisms; main infective diseases, pathogens and symptoms; protective measures, combating)
- **Sources of contamination and cross-contamination**
- **Accompanying measures to avoid contamination** (physical hygiene, cleanroom garments, the process of changing garments, man as a source of contamination, waste handling)
- **Cleaning and disinfection measures**
- **Skin protection** (functions of the skin, skin protection, skincare, hand cleaning, skincare plan)
- **Safety** (rules for handling cleaning and disinfection chemicals, protective equipment, hazardous materials, environmental protection, storage, operating procedures, hazardous material symbols, product labelling)
- **Gowning procedures/locking in and out** (sequence and technique of putting on and taking off cleanroom garments, locking in and out correctly)
- **Training on cleanroom garments** (explanation of the various materials, application according to cleanroom classes, functionality of the fabric)

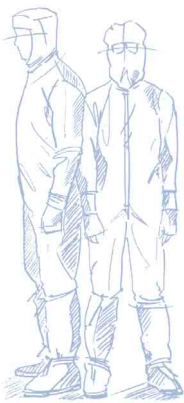
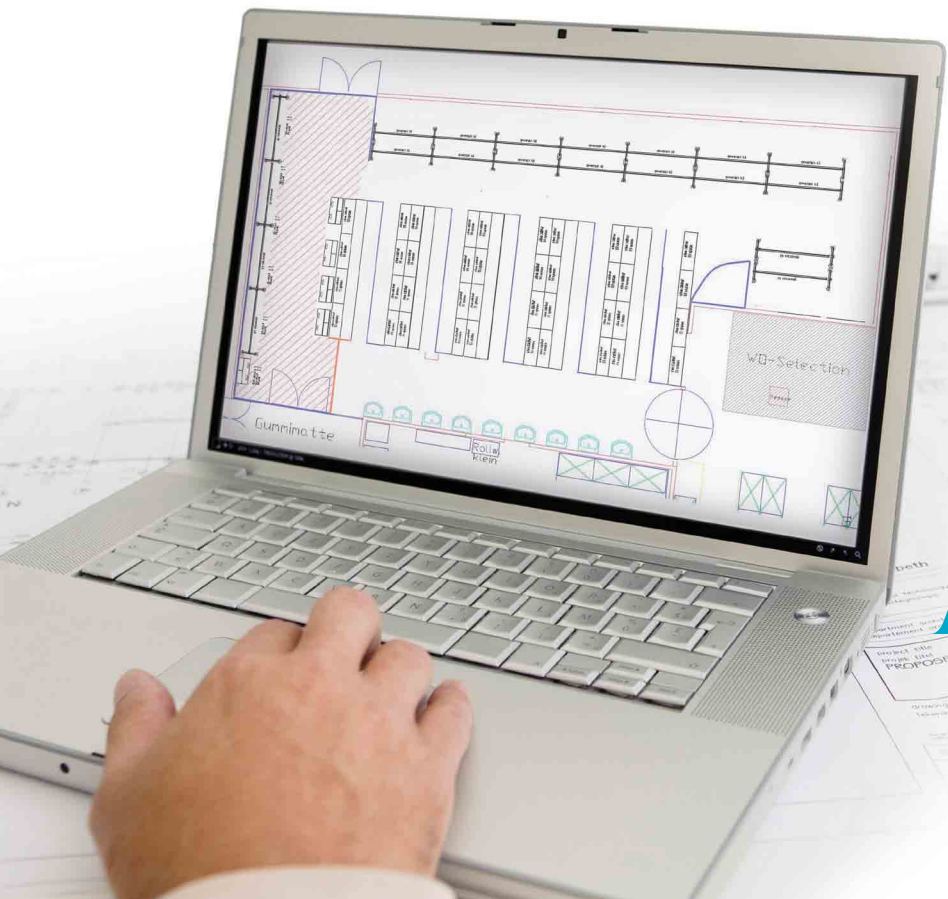


GOWNING ROOM CONCEPTS

A decisive element of cleanroom technology when designing new facilities or during reconstruction is the personnel air-lock area, which in itself defines the entire cleanroom gowning area and, if present, the air shower area.

It is here that contamination transfer into production areas is at its greatest – where often several hundred people in several shifts per day lock in and out. Apart from the reduction of contamination risk, a well planned layout of the personnel flow also has a positive effect on the investment costs. We support you in the planning and advise you in terms of design for the (re)construction of your personnel air-lock(s).

In addition, we work together with well known suppliers of gowning room equipment, who investigate your specific requirements (spatially and ergonomically).











Planning and design of
your personnel air-lock area

CLEANING, DISINFECTION AND HYGIENE PLANS

The purpose of a cleaning, disinfection or hygiene plan is to define responsibilities in the cleanroom. It contains a clear, easy to understand presentation of the 'what', 'when', 'how' and 'with what' cleaning is to be carried out and 'who' is responsible for the cleaning.

The creation of cleaning, disinfection or hygiene plans requires not only knowledge of which areas and surfaces to be cleaned, but above all knowledge of the effects of the cleaning agents applied.

Sample customer		DISINFECTION PLAN		 VWR We Enable Science		 basan® The Cleanroom Division of VWR	
Cleanroom B				Status 02/2014			
What	When	How	With what	Who			
 Gloves	2 x hourly and as required	Disinfect	ClearKlens IPA	Staff			
 Working surfaces, small surfaces on equipment	Daily and as required	Spray on, or wipe with a wetted wiper	ClearKlens IPA	Staff			
 Walls, doors, ceiling	Weekly and as required	disinfecting cleaning	ClearKlens Cleainsald or ClearKlens Tego 2000	Staff			
 Floor	Daily	disinfecting cleaning	ClearKlens Cleainsald or ClearKlens Tego 2000	Staff			
 Cleaning mops and wipers	After every use	disinfecting washing sterilizing		Contracted service provider			
 Housing without product contact	At end of work and as required	Spray on, or wipe with a wetted wiper	ClearKlens Cleainsald or ClearKlens Tego 2000	Staff			

If contamination with bacterial spores has most probably happened, surfaces should be disinfected with ClearKlens BiSpore.

Responsible: _____

For optimising the range
and composition of cleaning
agents and disinfectants in
your cleanroom



WIPE AND GLOVE PLANS

Because of the differing requirements placed on gloves and wipes in the cleanroom and in controlled environments, a wide range of products are used.

We support you in the choice of suitable cleanroom products. The aim is to optimise the multiplicity of gloves and wipes used, taking into account the applicable regulations, standards and the latest technology.

Sample customer		GLOVE PLAN			VWR We Enable Science		basan® The Cleanroom Division of VWR	
Cleanroom		Status 02/2014			1. Version		Alternative version	
Work area	Application	Material	Length	Sizes	Manufacturer	Type	Manufacturer	Type

Sample customer		WIPER PLAN			VWR We Enable Science		basan® The Cleanroom Division of VWR	
Cleanroom		Status 02/2014			1. Version		Alternative version	
Work area	Application	Material	Size		Manufacturer	Type	Manufacturer	Type



VWR

Push: Open



ImpactStar CS4

Min

RP100

Our own range of branded products delivers quality you can trust with the value you've come to expect from VWR. Whether you need equipment, instruments, consumables or chemicals, there's a VWR product for your laboratory and your budget.

The range includes speciality chemicals, clinical, environmental and life science reagents and consumables as well as a wide range of safety and cleanroom products – it's a collection that keeps on growing ...

At VWR, we are focussed on your success because together **We Enable Science.**

VWR
COLLECTION

.....
basan
the cleanroom division of VWR

VWR



VWR
AMVRESCO LIFE SCIENCE

VWR
CHEMICALS

INDUSTRIAL SAFETY and protection solutions

PERSONAL PROTECTIVE EQUIPMENT

Protection from head to toe

- Eye protection
- Respiratory protection
- Ear protection
- Hand protection
- Foot protection

A personalised safety concept tailored according to circumstances and the individual need of the employees, from personal protective equipment, to the working environment, ensuring the best defence against hazards in the workplace.

VWR offers a comprehensive range of products for your health and safety in production! Regardless of whether you require a solution for the transport and storage of hazardous substances or the

WORKWEAR

Professional protective clothing

- Bodywear
- Cold, wind & rain
- High visibility
- Chemical
- Multi-norm
- Cold storage & food

More than
10 000 products
for environmental
and personal
protection



correct pair of gloves to protect against cuts, extreme temperatures or hazardous chemicals. VWR offers expert advice on choosing the appropriate health and safety products in your work with the support of an appropriately qualified professional team.

Our service does not end with the delivery of products, we pride ourselves on supplying great support, even offering customised health and safety training to your employees.

Your VWR Safety Team

ENVIRONMENTAL PROTECTION

Occupational safety and health

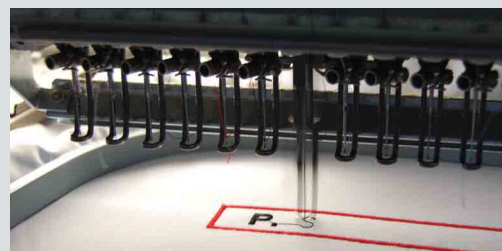
- Safety sign & labels
- First aid
- Waste management
- Ergonomic facilities equipment



SERVICE

Customised services and solutions

- Develop individual programmes depending on the customers requirements
- Concepts for gloves & hand protection
- Safety training for employees
- Customer logo service for clothing
- Technical documentation
- Change notification process



**SAFETY SUPPORT
ALL OVER EUROPE**

Our Services for your cosmetic manufacturing facilities

With our extensive portfolio of differentiated services, we can help you to remove the burden of ancillary tasks, to move faster and devote more time to your work.

Our services for you:

- Sourcing and procurement solutions
- Facility and logistics support
- Inventory management
- On-Time, In-Full" / "Just-in-Time"-Deliveries
- Consumption planning
- Equipment management
- Permanent stock-keeping of standard products
- Controlled stock moving and tracking via SAP barcode system
- GMP-compliant sterile goods handling
- Change control notifications
- Custom packaging and irradiation services
- Development of customized products

We provide custom-made support, exactly where you need it, to help you powering productivity, improving quality, safety and regulatory compliance and saving costs.



VWR CATALYST SERVICES

**Delivering complete solutions in
and around the laboratory and
production area**

Please visit us at: [vwr.com/vwrcatalyst](https://www.vwr.com/vwrcatalyst)

VWR  **CATALYST**
We Enable Science Through Services



REUSABLE GARMENTS

Overalls, face masks and hoods	2
Shoe and boot covers	6
Coats and bouffant caps	7
Under garments	8

QUANTUS® – AN OPTIMAL GARMENT SYSTEM

Garments are an essential factor in protecting the product from particulate and microbiological contamination through humans in controlled environments.

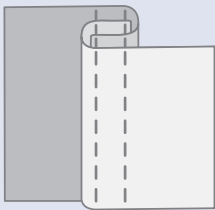
Consequently, a well designed garment system that demonstrates certain technical and functional characteristics is an absolute must. The material is permeable to water vapour which, together with a generous fit, offers maximum comfort.



Suitable for decontamination and autoclavable
Our leasing partner specialises in EN ISO 14644 and of the EG GMP Guide (including Annex 1) requirements.

High quality workmanship
The workmanship is orientated to the requirements of the cleanroom application. By applying lap seams we ensure a high output of tight and secure seam enclosures.

Lap seam



Sizing from XXS – XXL*
All sizes are generously proportioned, allowing complete freedom of movement even when worn over full clothing. For an optimum fit, overshoes are also available between sizes M - L.

** Sizes are based on experiential values and are not binding. Samples are available to determine correct sizes.*

Individual design
Ensures optimal fit and functionality of the garments.



Easy traceability
of garment thanks to special information on the label. Additional inclusion of chip and/or barcoding possible.

High quality fabrics

- 100% polyester containing an ESD stripe
- High wearing comfort
- Long life cycle
- Anti-microbial finish
- Twill and plain weave available
- Also available with PTFE coating


































Tested fabrics quality
Technical and functional features of our fabrics are tested by independent institutes:

- Institut für Textil- und Verfahrenstechnik Denkendorf (ITV)
- Forschungsinstitut Hohenstein (garment physiology aspects)

** Tests were applied to fabric Integrity 1700 Standard. Detailed test results are available upon request.*

Fabrics (coveralls, hoods, facemasks, overboots/overshoes, coats)

Fabric	Weight	Colour			Recommended cleanroom classes				
Quantus® Comfort	100,7 g/m²	 White	 Light blue*						*
Quantus® Standard	95 g/m²	 White	 Light blue	 Green*					*
Quantus® Protect PTFE coated	95 g/m²	 White	 Light blue*						*
Quantus® Protect Xtra PTFE coated	98,3 g/m²	 White	 Light blue	 Teal*					*
Quantus® Control PTFE coated	125,8 g/m²	 White	 Ceil blue	 Jet dye green**					**

* In combination with Quantus® Underwear the garment can also be used for cleanroom Class ISO 3 - 4.
** In combination with Quantus® Underwear the garment can also be used for cleanroom Class ISO 5.

Model overview



Based on our long-term experience, we have developed further fabrics providing different characteristics (for specific cleanroom applications, with splash guard, flame protection, cut resistance, ESD properties, etc).
Please ask which models are available in respective fabrics and sizes.








Our fabrics meet the requirements of Oeko-Tex Standard 100.

Certified QUALITY: Tested by Hohenstein Laboratories



Washing instructions

-  Washing at 60 °C
-  Do not bleach
-  Iron using low temperature setting; caution when ironing with steam
-  Use of standard detergents
-  Dry with reduced heat

Autoclavable: 134 °C/5 min

QUANTUS® - GARMENT CONCEPT



Decontamination

Cleanroom garments require special decontamination processes. The difference to normal cleaning methods is that mechanical friction is minimised to protect the fabric. The low particle is achieved through special washing processes.

Sizing

This information is for guidance only.
Samples are available upon request to determine correct sizing.

Special sizes are available on request!

Sizes		XXS	XS	S	M	ML	L	XL	XXL	XXXL
Coveralls/coats*	Women	36 - 38	40	42	44 - 46		48 - 50	52 - 54		
	Men	44	46	48	50 - 52		54 - 56	58 - 60	62 - 64	66 - 68
Flat hood (head circumference)			53 - 55 cm	57 - 58 cm	59 - 60 cm		61 - 63 cm	64 - 65 cm		
Overshoes** (appr. sole length)					38 - 39		40 - 43	44 - 47		
Overboots** (appr. sole length)				36 - 38	39 - 41	42 - 43	44 - 46	47 - 49		

*Fringe sizes can be subject to longer lead times.
**Sizes can fit differently according to which shoes are worn in the overboots or overshoes.

Quantus® overalls

Features:

- Lapped seams for well-sealed and secure seams
- Plastic front zip closure with double flap
- High collar with press stud
- Tunnel guided, elastic waistband
- Comfortable Raglan style
- Anti-static knitted cuffs as sleeve closures
- Adjustable leg closures with press studs
- Press studs on left breast for white PES clipband (W×H: 12×2 cm)
- Stitched collar patch with label
- Hanger loop in collar

Optional features:

- Anti-static knitted cuffs at ankles
- Clipband of cleanroom fabric (printed/unprinted)
- Individual printing: Corporate logo, name, codes, etc.
- Loop for attaching pens, mobile phones, IDs, etc. (Size (W×H): 8×4 cm)
- ESD functional models are available upon request
- **Combined overall:** Overall with integrated flat hood including mesh ear inserts, open field of view, 4 press studs at the front for adjustment, hood can be adjusted at the back means of press studs

Sizes: XXS - 3XL, special sizes are available



Quantus® face masks

Features:

- Press studs for attaching to the hoods (3 on each side)
- Square shape

Standard size (L×W): 26×26 cm

Optional features:

- Velcro strip for attaching to the hoods (internal or external)
- Variable dimensions
- Available with gauze insert (in the top third)

Size (L×W): 38×31 cm



Quantus® hoods

Features:

- Flat head design
- Spiral front plastic zip closure
- Shoulder protection
- Optimal fit through adjustable snap fastener at the back
- Comfortable net insert at ear positions to reduce hearing loss
- Press studs to button the face mask onto the side of the hood (as well as for height adjustment)

Sizes: XS - XL

Large features:

- Large head/ bouffant design for increased upper head volume to cater for different hair styles
- Clip or ties fastening at the back
- Coding and/or corporate logo printing
- Also available as eyes-only hood





Quantus® boot covers

Features:

- Front zip closure
- Elastic band in the back with adjustable press studs
- Adjustable snap fastener at instep height
- Light grey plastic sole (Maestro), with high sole edge (robust, waterproof, autoclavable)
- Polyester band insert between sole and fabric

Sizes: S - XL

Optional features:

- PES ties at knee and ankle height
- Additional clip at instep height



Quantus® boot cover Plus Q-D

Features:

- Plastic zip closure, concealed and offset to the side (outwards)
- Gaiter closure at top, adjusted with PES tape and buckle clip
- Two flaps as threading guide for the projecting PES tape on the edge of the gaiter
- Clip fastener at instep
- Double reinforcement on the gaiter, made of outer fabric
- Reinforcement between sole and fabric, made of CONTROL fabric (white)
- Light grey nitrile plastic sole CRS-BA low (ergonomically moulded, roughened profile, stable, waterproof, autoclavable)

Sizes: S - XL



Quantus® shoe covers

Features:

- Elastic band on upper side
- Press studs for width adjustment
- Double reinforcement, made of outer fabric
- Flexible plastic sole (stable, waterproof)

Sizes: M - XL



Quantus® coat

Features:

- Lapped seams for tight and secure seams
- Press studs in front
- High collar with press stud
- Comfortable Raglan style
- Anti-static knitted cuffs
- Press studs on left breast; white PES clipband
- Left breast pocket
- Two hip pockets
- Stitched collar patch with label
- Hanger loop in collar

Sizes: XXS - 3XL

Optional features:

- Two-way front zip closure with double flaps (Model Quantus® Control)
- Both versions (press studs and zipclosure) are also available without pockets
- Clipband of cleanroom fabric (printed/unprinted)
- Individual printing: Corporate logo, name, codes, etc.
- Loops for attaching pens, mobile phones, identification passes, etc.



Quantus® bouffant cap

Features:

- Universal size
- Elastic band for minor size adjustment (at rear only)
- Press studs for major size adjustment

QUANTUS® - UNDER GARMENTS



In order to optimise the Quantus® garment system, we recommend the use of abrasion-proof, functional under garments (underwear).

High quality blends in polyester, microfibre or cotton/polyester that minimise loose fibres are available. Additional comfort is achieved through optimal moisture and heat transport.

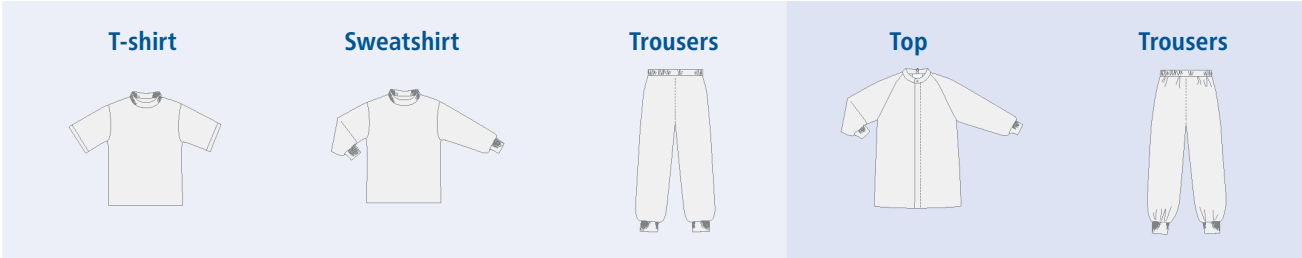
Besides physiological aspects and comfort, aspects of hard wearing work clothes as well as corporate identity requirements, and modern styles and colours are becoming more and more important.

Fabrics

Datasheets available upon request!

Fabric	Weight	Colour	Special features
Quantus® Underwear Standard	Trousers, sweatshirt	97,5 g/m²	 Anti-static + anti-microbial equipped, keenly softer feeling, tightly texture tie, low pore size
	T-shirt	175 g/m²	 Hard wearing and keenly low maintenance function ware: PES inside/cotton outside
Quantus® AreaDress (PTFE coated)	Top, trousers	116 g/m²	 Anti-static + anti-microbial equipped, keenly softer feeling, tightly texture tie, excellent breathability

Model overview



Please ask which models are available in respective fabrics and sizes.

Sizing

This information is for guidance only.
Samples are available upon request to determine correct sizing.

Special sizes are available on request!

Sizes	XS	S	M	L	XL	XXL	XXXL
Women	32/34	36/38	40/42	44/46	48	50	52/54
Men	38/40	42/44	46/48	50/52	54/56	58	60/62

Quantus® underwear standard

Features sweatshirt

- Lapped seams for tight and secure seams
- Anti-static
- Long sleeves
- Also available as T-Shirt with short sleeves
- Knitted cuffs
- Round neck, knitted
- Extra material flap for barcode inside
- Antimicrobial finish

Colour: Dark blue

Fabric: Microfibre (100% polyester with carbon)

Sizes: XS - 3XL

Features trousers

- Anti-static
- Wide, double stitched, comfort waist band
- Rubber band at ankle height
- Extra material insert/pocket positioned under the waistband on the right (for barcode)
- Antimicrobial finish

Colour: Dark blue

Fabric: Microfibre (100% polyester with carbon)

Sizes: XS - 3XL



Quantus® undergarments

In order to optimise the Quantus® garment system, we recommend the use of abrasion-proof, functional undergarments (underwear).

High quality blends in polyester, microfibre or cotton/polyester that minimise loose fibres are available. Additional comfort is achieved through optimal moisture and heat transport.

Besides physiological aspects and comfort, aspects of hard-wearing work clothes as well as CI-requirements and modern styles and colours are becoming more and more important when choosing undergarments.





Quantus® AreaDress

Features for top garment:

- Two-way, front, covered zip closure
- High collar with press stud
- Comfortable Raglan style
- Anti-static knitted cuffs
- Stitched collar patch with label
- Hanger loop in collar

Colour: white, further colours upon request

Fabric: 100% polyester with carbon

Sizes: XS - 3XL

Features for trousers:

- Wide, double stitched, comfort waist band
- Knitted cuffs at ankle height

Colour: white, further colours upon request

Fabric: 100% polyester with carbon

Sizes: XS - 3XL



Quantus® T-Shirt

Features:

- Functional underwear (Jersey type fabric)
- Short sleeves
- Round neck
- Bordered cuffs
- Logo imprint/ embroidery upon request
- Easy cut for optimal comfort

Colour: white

Fabrics: 65% cotton / 35% polyester

Sizes: XS - 3XL



Quantus® socks

Features:

- Low abrasion
- Washable up to 30 °C

Colours: White or light blue



DISPOSABLE GARMENTS

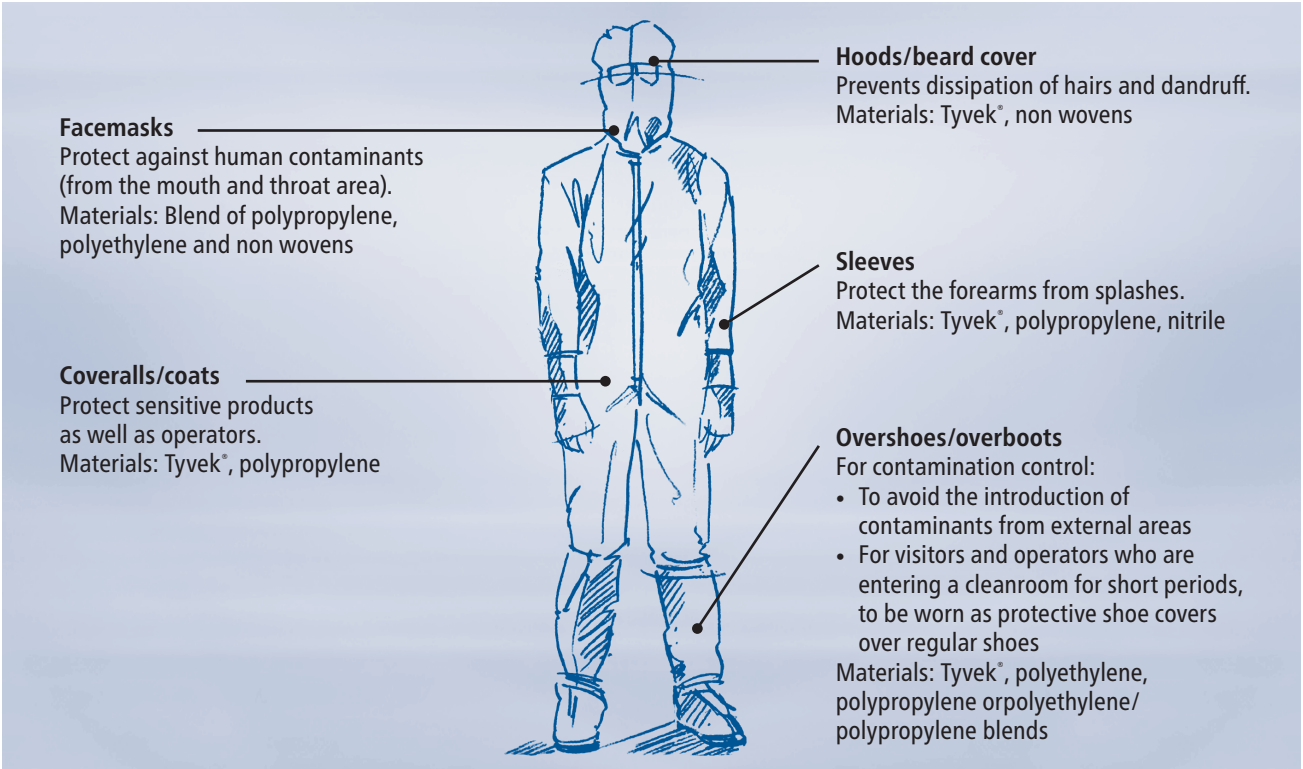
Overalls	12
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DISPOSABLE GARMENTS

Protection of Products and Operators by Disposable Garments

Disposable garments are often a supplement to reusable garments, and the application goes from operator protection to product protection.

It is impossible to recommend a cleanroom class for products, because disposable garments are, in most cases, not cleanroom processed. Low particulate and extractable levels are not given. A complete range of disposable garments is available in different materials, styles and sizes.



Our recommendation: Use dispenser systems for the simple collection of cleanroom disposables such as hoods, facemasks, shoe covers or gloves.

Fabrics				Increasing particle emission
Tyvek® (TY)	Cleanroom compatible for Class ≥100.000 (Sterile, cleaned designs available upon request)	Anti-static, tear resistant, breathable, suitable for splash protection	Available colour: White	
Polypropylene (PP)	Not specifically designed for cleanroom use	Anti-static, breathable	Colour: White	
Polyethylene (PE)	Not specifically designed for cleanroom use	Suitable for spray protection (no absorption)	Colours: White, blue	
Non wovens (NW)	Not specifically designed for cleanroom use	Breathable	Colour: White	



Chemical resistant cleanroom overalls, type 4/5/6



Suitable for use in Critical Environments (IEST-RP-CC003.3 – Level II).

Disposable, anti-static overall made of a microporous film with a nylon scrim between film and substrate that gives the material additional strength. The breathable garment provides protection against chemical dusts, paint sprays, asbestos, and other airborne dusts. It can be used in any non hazardous environment where protection against dirt, grime, splashes and spills is required.

- With hood
- Zip closure with flap
- Elasticated cuffs, ankles and waist
- Seams sealed with dark green tape (liquid-proof)
- Anti-static
- Individually packed

Weight: 60 g/m²

Colour: White

Type 4/5/6, EN 340, EN 1149-5, EN 1073-2, EN 14126; Cat. III

Clothing size	Pk	Cat. No.
S	50	113-6241
M	50	113-6242
L	50	113-6243
XL	50	113-6244
XXL	50	113-6245
3XL	50	113-6246



Cleanroom overalls, VWR Advanced, SF



VWR Advanced SF overalls are manufactured from spunbonded polypropylene fabric coated with breathable polyethylene film. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Available with tapered collar or with hood and attached boot covers
- Inset sleeves, zip closure, elasticated cuffs
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
Overalls with collar		
S	25	113-1061
M	25	113-1062
L	25	113-1063
XL	25	113-1064
XXL	25	113-1065
3XL	25	113-1066
4XL	25	113-1067
5XL	25	113-1068
Hooded overalls with attached fluid-impervious boot covers		
L	25	113-1069
XL	25	113-1070
XXL	25	113-1071
3XL	25	113-1072
4XL	25	113-1073



Cleanroom overalls, VWR Basic, SMS



These cleanroom overalls are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Tapered collar, inset sleeves, zip closure, elasticated cuffs
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	M	25	113-1097
White	L	25	113-1098
White	XL	25	113-1099
White	XXL	25	113-1101
White	3XL	25	113-1102
White	4XL	25	113-1103
Blue	S	25	113-1090
Blue	M	25	113-1091
Blue	L	25	113-1092
Blue	XL	25	113-1093
Blue	XXL	25	113-1094
Blue	3XL	25	113-1095
Blue	4XL	25	113-1096



Cleanroom overalls, VWR Basic, SPP



The VWR Basic SPP overalls are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO certified facility and lot controlled and validated through independent laboratory testing.

- Tapered collar, inset sleeves, zip closure, elasticated cuffs
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
M	25	113-1104
L	25	113-1105
XL	25	113-1106
XXL	25	113-1107
3XL	25	113-1108
4XL	25	113-1109
5XL	25	113-1110



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Cleanroom overalls, VWR Maximum, SF



VWR Maximum SF overalls are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Available as a standard overall with collar, either elasticated ankles or non-slip boot covers, or hooded overall with fluid-impervious boot covers
- Inset sleeves, zip closure, elasticated cuffs
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level 1 Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
Standard overall with collar		
M	25	113-1078
L	25	113-1079
XL	25	113-1080
XXL	25	113-1081
3XL	25	113-1082
4XL	25	113-1083
5XL	25	113-1084
Overall with collar and attached non skid boot covers		
M	25	113-1085
L	25	113-1086
XL	25	113-1087
XXL	25	113-1088
3XL	25	113-1089
Hooded overall with attached fluid-impervious boot covers		
M	25	113-1074
L	25	113-1075
XL	25	113-1076
XXL	25	113-1077



Cleanroom overalls, IsoClean®, Tyvek®
DuPont®



Suitable for use in Class 100, ISO 5 environments.

The IsoClean® 182 cleanroom overall is made of durable Tyvek® flashspun polyethylene and features a zip closure front and Raglan sleeves. The overall provides an excellent inherent barrier to dry particles, microorganisms and non hazardous liquids.

- Gamma irradiated to Sterility Assurance Level (SAL) of 10⁻⁶
- Low linting
- Bound seams and covered elasticated wrists and ankles

Colour: White

Packaging: Individually packaged in an opaque bag and placed in double transparent poly liners.

Clothing size	Pk	Cat. No.
M	25	113-9714
L	25	113-9713
XL	25	113-9715
XXL	25	113-9711
3XL	25	113-9712



Overalls, Tyvek® Classic Plus
DuPont®



These overalls made from Tyvek® 1431 N are recommended for protection against weak concentrations of a wide range of inorganic chemicals. They offer an excellent barrier against fine particles and fibres (down to 1 micron in size).

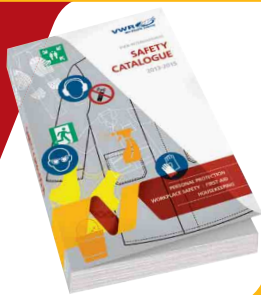
- Watertight stitching provides maximum protection
- Anti-static treatment
- Thumb loops
- Elasticated waist, face opening, wrists and ankles
- Over taped seams, zip closure with self-adhesive zip flap
- Robust yet lightweight (<250 g per garment)

Density: 41 g/m²

Type 4B/5/6, EN 1149-5, EN 14126:2003, Cat. III

Packaging: Individually packaged with size label on each bag.

Colour	Clothing size	Pk	Cat. No.
Without integral socks			
White	S	25	113-3874
White	M	25	113-3875
White	L	25	113-3876
White	XL	25	113-3877
White	XXL	25	113-3878
White	3XL	25	113-3879
Green	M	25	113-9701
Green	L	25	113-9702
Green	XL	25	113-9703
Green	XXL	25	113-9704
With integral socks			
White	S	20	113-3892
White	M	20	113-3893
White	L	20	113-3894
White	XL	20	113-3895
White	XXL	20	113-3896
White	3XL	20	113-3897



VWR SAFETY CATALOGUE

From head to toe protection

Request your copy from your local VWR sales office or vwr.com

Overalls, Tyvek® Classic Xpert
DuPont®



These hooded overalls made from Tyvek® 1431 N provide protection against a wide range of inorganic chemicals and particles. They offer enhanced protection against a range of threats, from water-based chemical liquid splashes, asbestos, pharmaceutical and radioactive particulates to biological hazards.

- Ultra low linting
- Elasticated at waist, wrists and ankles, flap-over closure
- Anti-static (white model), blue and green models feature an anti-static treatment (inside only)
- Offers an excellent barrier against fine particles and fibres (down to 1 micron in size)
- 6× more particulate protection and 3× more liquid protection than Classic version thanks to new seam technology
- Robust yet lightweight (<180 g per garment)

Colour: Blue, green or white

Density: 41 g/m²

Types 5/6, EN 1149-5, EN 1073-2, EN ISO 17491-4, EN 14126; Cat. III

Packaging: Individually packaged with size label on each bag.

Colour	Clothing size	Pk	Cat. No.
White	S	25	113-6060
White	M	25	113-6061
White	L	25	113-6062
White	XL	25	113-6063
White	XXL	25	113-6064
White	3XL	25	113-6065
Blue	M	25	113-3870
Blue	L	25	113-3871
Blue	XL	25	113-3872
Blue	XXL	25	113-3873
Green	M	25	113-3865
Green	L	25	113-3866
Green	XL	25	113-3867
Green	XXL	25	113-3868



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Cleanroom overalls, BioClean-D™ Clean-Tough™, disposable
Nitritex



Suitable for use in Class 10, ISO 4, M2.5 environments.

The disposable overalls made from Clean-Tough™ fabric provide good protection against hazardous dusts (including nuclear particles) and limited protection against chemical splashes. Available with hood or with collar.

- Lightweight, low linting and hard-wearing material
- Available as sterile or non sterile version
- Zip front with flap cover, thumb loops, elasticated back, cuffs and ankles
- Each size carries a unique barcode on the outer carton (ITF-14), this allows automatic data entry into Stock Control Systems

Colour: White

Type 5/6; Cat. III

Packaging: One coverall per sealed plastic bag; 20 coveralls per sealed carton liner; one carton liner per carton. Sizes 3XL and 4XL are available on request.

Type	Clothing size	Pk	Cat. No.
With hood			
Non sterile	XS	20	113-8008
Non sterile	S	20	113-8006
Non sterile	M	20	113-8005
Non sterile	L	20	113-8004
Non sterile	XL	20	113-8007
Non sterile	XXL	20	113-8000
Sterile	XS	20	113-8032
Sterile	S	20	113-8018
Sterile	M	20	113-8017
Sterile	L	20	113-8016
Sterile	XL	20	113-8019
Sterile	XXL	20	113-8033
With collar			
Non sterile	XS	20	113-7999
Non sterile	S	20	113-7997
Non sterile	M	20	113-7996
Non sterile	L	20	113-7995
Non sterile	XL	20	113-7998
Non sterile	XXL	20	113-7994
Non sterile	3XL	15	113-8196
Sterile	XS	20	113-8014
Sterile	S	20	113-8012
Sterile	M	20	113-8011
Sterile	L	20	113-8010
Sterile	XL	20	113-8013
Sterile	XXL	20	113-8009



Overalls, SPP



Breathable overalls made of spunbonded polypropylene (SPP), a lightweight fabric that provides protection in non hazardous, dirty work environments.

- With hood
- Zip closure
- Elasticated cuffs, ankles and waist

Weight: 50 g/m²

Colour: White

Clothing size	Pk	Cat. No.
M	50	113-6229
L	50	113-6230
XL	50	113-6231
XXL	50	113-6232
3XL	50	113-6233
4XL	50	113-6234



VWR[®]
COLLECTION
Overalls, SMS



These durable, anti-static overalls are made of breathable and soft SMS, a spunbonded fabric with a unique trilaminate construction that offers a high tensile strength and toughness and provides a barrier to fluids and particulates. The overalls can be used in medical, industrial, laboratory, electronic and pharmaceutical applications. Suitable for use in Critical Environments (IEST-RP-CC003.3 – Level I).

- With elasticated hood
- Zip closure with flap
- Elasticated cuffs, ankles and waist
- Serged seams (stitching method)
- Low lint performance

Weight: 55 g/m²

Colour: White

EN 340, EN 1149-5, EN 13034+A1 (Type 5), EN 13982-1+A1 (Type 6), EN 1073-2; Cat. III

Clothing size	Pk	Cat. No.
S	50	113-6235
M	50	113-6236
L	50	113-6237
XL	50	113-6238
XXL	50	113-6239
3XL	50	113-6240



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DuPont™ Tyvek® and Tyvek® IsoClean® Protecting you and your processes

- Extremely high quality control specifications for garment production
- Can be used in cleanrooms up to ISO Class 5
- Tyvek® breathes and retains much less heat than microporous films
- Garment design that follows movements perfectly when working



DuPont™ SafeSPEC™



Tyvek.



Cleanroom garment sets



This single-use garment set includes overall, hood, boot covers and sleeve protectors, all made from breathable SMS fabric. The sterile garments are ideal for use in cleanroom production and research.

- Overall with collar, Raglan sleeves, two-way zip fastener and thumb-loop (latex-free)
- Overall features bound seams and elasticated wrists, ankles and back for tighter fit and easier donning
- Boot covers with anti-skid PU sole
- Low particle shedding
- Garments are gamma-sterilised to SAL 10⁻⁶

Colour: White

Weight: 60 g

Length of the sleeve protectors: 43 cm

Length of the boot covers: 42 - 44 cm (depending on size)

Level I acc. IEST-RP-CC003.3

Type 5/6; Cat. III

Packaging: Individually double packed in easy-tear bags. 20 complete sets per liner.

Clothing size	Pk	Cat. No.
S	20	113-7875
M	20	113-7876
L	20	113-7877
XL	20	113-7878
XXL	20	113-7879
3XL	20	113-7880



Cleanroom overalls



These sterile single-use overalls are made of breathable SMS fabric. They are ideal for use in cleanroom production and research.

- With hood and two-way closure
- Elasticated wrist, ankles and back for tighter fit and easier donning
- Thumb loops (latex-free)
- Bound seams

Colour: White

Weight: 60 g

Level I acc. IEST-RP-CC003.3

Type 5/6; Cat. III

Packaging: Individually double packed in easy-tear bags. 20 overalls per liner.

Clothing size	Pk	Cat. No.
S	20	113-7881
M	20	113-7882
L	20	113-7883
XL	20	113-7884
XXL	20	113-7885
3XL	20	113-7886





Cleanroom overalls, KIMTECH PURE* A5
Kimberly-Clark



Suitable for use in Class 100, ISO 5, 3.5 environments.

The KIMTECH PURE* A5 sterile cleanroom apparel with CLEAN-DON* technology is made of SMS (Spunbond Meltblown Spunbond) material. It features built-in snaps that gather up legs and arms to aid aseptic gowning. Garments have a thumb loop that prevents the sleeve from rolling back and exposing arm or wrist when in use.

- Cloth-like comfort
- Innovative Inside-Out fold pattern, reducing the risk of touching and contaminating the outside of the apparel when opening or donning
- Highly visible blue line along the inside of the garment signals the proper place to grasp while gowning
- Vacuum packaging reduces space so more products fit into gowning area storage

Colour: White

Packaging: Vacuum packed and double bagged for added sterility assurance.

Clothing size	Pk	Cat. No.
S	25	113-1198
M	25	113-1199
L	25	113-1210
XL	25	113-1211
XXL	25	113-1212
3XL	25	113-1213
4XL	25	113-1219



VWR COLLECTION CATALOGUE

10 000 equipment, instrument and consumable products

Request your copy from your local VWR sales office or vwr.com



Cleanroom frocks, VWR Advanced, SF



VWR Advanced SF frocks are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Snap collar, Raglan sleeves, snap closure, elasticated cuffs
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
S	25	113-1177
M	25	113-1178
L	25	113-1179
XL	25	113-1180
XXL	25	113-1181
3XL	25	113-1182
4XL	25	113-1183



Cleanroom frocks, VWR Basic, SMS



These SMS frocks are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Snap collar, Raglan sleeves, snap closure
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	S	30	113-1156
White	M	30	113-1157
White	L	30	113-1158
White	XL	30	113-1159
White	XXL	30	113-1160
White	3XL	30	113-1161
Blue	M	30	113-1162
Blue	L	30	113-1174
Blue	XL	30	113-1175
Blue	XXL	30	113-1176
Blue	3XL	30	113-1166



Cleanroom frocks, VWR Basic, SPP



The VWR Basic SPP frocks are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO certified facility and lot controlled and validated through independent laboratory testing.

- Snap collar, Raglan sleeves, snap closure
- Elasticated cuffs, no pockets
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
M	30	113-1151
L	30	113-1152
XL	30	113-1153
XXL	30	113-1154
3XL	30	113-1155





Cleanroom frocks, VWR Maximum, SF



VWR Maximum SF frocks are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Snap collar, Raglan sleeves, snap closure, elasticated cuffs
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level 1 Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
M	25	113-1167
L	25	113-1168
XL	25	113-1169
XXL	25	113-1170
3XL	25	113-1171
4XL	25	113-1172



Cleanroom frocks, with Velcro®, VWR Basic, SPP



The VWR Basic SPP frocks are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO certified facility and lot-controlled and validated through independent laboratory testing.

- Snap collar, Raglan sleeves, Velcro® closure, knitted cuffs, no pockets
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
S	30	113-1988
M	30	113-1989
L	30	113-1990
XL	30	113-1991
XXL	30	113-1992



Cleanroom lab coats, VWR Advanced, SF, disposable



VWR Advanced SF lab coats are manufactured from spunbonded polypropylene fabric coated with breathable polyethylene film. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Tapered collar, inset sleeves, snap closure, elasticated cuffs, three pockets
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particle barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
S	25	113-1145
M	25	113-1146
L	25	113-1147
XL	25	113-1148
XXL	25	113-1149
3XL	25	113-1150



Cleanroom lab coats, VWR Basic, SMS, disposable



The SMS lab coats are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Tapered collar, inset sleeves, snap closure
- Knitted cuffs, three pockets
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	S	30	113-1131
White	M	30	113-1132
White	L	30	113-1133
White	XL	30	113-1134
White	XXL	30	113-1135
White	3XL	30	113-1136
White	4XL	30	113-1137
Blue	S	30	113-1125
Blue	M	30	113-1126
Blue	L	30	113-1127
Blue	XL	30	113-1128
Blue	XXL	30	113-1129
Blue	3XL	30	113-1130



Cleanroom lab coats, VWR Basic, SPP, disposable



The VWR Basic SPP lab coats are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO certified facility and lot controlled and validated through independent laboratory testing.

- Tapered collar, inset sleeves, snap closure
- Elasticated or knitted cuffs, no pockets or three pockets
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
With elasticated cuffs, no pockets		
S	25	113-1118
M	25	113-1119
L	25	113-1120
XL	25	113-1121
XXL	25	113-1122
3XL	25	113-1123
4XL	25	113-1124
With knitted cuffs, three pockets		
S	30	113-1111
M	30	113-1112
L	30	113-1113
XL	30	113-1114
XXL	30	113-1115
3XL	30	113-1116



Cleanroom lab coats, VWR Maximum, SF



VWR Maximum SF lab coats are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Tapered collar, inset sleeves, snap closure, elasticated cuffs, three pockets
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level I Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
S	25	113-1138
M	25	113-1139
L	25	113-1140
XL	25	113-1141
XXL	25	113-1142
3XL	25	113-1143
4XL	25	113-1144

Cleanroom lab coats, Tyvek® 1431 N
DuPont®



These anti-static lab coats made from Tyvek® 1431 N are recommended for protection against dirt from non hazardous materials only. These garments are not intended for use in hazardous environments.

- Easily recycled (can also be incinerated)
- Comfortable, light and flexible: Made from breathable material, permeable to air and water vapour
- Low lint and non contaminating
- Highly resistant to wear and tear

Colour: White

Density: 41 g/m²

Cat. I

Clothing size	Pk	Cat. No.
5 plastic snap fasteners at the neck, 3 pockets		
M	50	113-0468
L	50	113-0467
XL	50	113-0469
XXL	50	113-0470
Zip closure at the neck, 2 pockets		
S	50	113-3882
M	50	113-0472
L	50	113-0471
XL	50	113-0473
XXL	50	113-0474
5 plastic snap fasteners at the neck, no pockets		
M	50	113-0476
L	50	113-0475
XL	50	113-0477
XXL	50	113-0478

Cleanroom lab coats, BioClean-D™, Clean Tough™, disposable
Nitritex



Suitable for use in Class 10, ISO 4, M2.5 environments.

These disposable lab coats are made from CleanTough™ fabric which is spunbonded non woven PP laminated with a film of PE. The fabric provides protection against fine sprays and particles.

- Lightweight, low linting and hard-wearing material
- Three pockets, press stud fastening
- Open cuffs and rear vent
- Available as sterile or non sterile version
- A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Colour: White

Type PB [6]; Cat. III

Packaging: One lab coat per sealed double plastic bag; 30 plastic bags per sealed carton liner; one carton liner per carton (30 lab coats).

Type	Colour	Clothing size	Pk	Cat. No.
Non sterile	White	S	30	113-0811
Non sterile	White	M	30	113-0810
Non sterile	White	L	30	113-0809
Non sterile	White	XL	30	113-0812
Non sterile	White	XXL	30	113-0813
Sterile	White	S	30	113-0826
Sterile	White	M	30	113-0825
Sterile	White	L	30	113-0824
Sterile	White	XL	30	113-0827
Sterile	White	XXL	30	113-0828



Lab coats, SPP, disposable



This disposable coat is made of non woven laminated SPP fabric.

- Tailored collar
- Press stud closure and open cuffs
- Two pockets

Weight: 45 g/m²

Colour: White

Clothing size	Pk	Cat. No.
M	50	113-6223
L	50	113-6224
XL	50	113-6225
XXL	50	113-6226
3XL	50	113-6227
4XL	50	113-6228



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Lab coats, KIMTECH SCIENCE* A7 P+
Kimberly-Clark



- These coats made from film coated PP are ideal for laboratory environments with low risk of exposure to chemicals and a basic need for contamination control. They protect the user against low risk liquid chemicals, in the form of light splashes, sprays and aerosols.
- Manufactured from abrasion-resistant, film coated PP, offering excellent particle and bacterial filtration
 - Breathable, cloth-like feel, reducing the risk of heat stress
 - Suitable for use over long periods, with triple over locked seams increasing strength and providing additional protection
 - Silicone and latex-free
 - Mandarin collar, elasticated cuff, thumb-loops and extra length arms
 - 99% particle and bacterial filtration efficiency

Colour: White

Type 6 (PB), EN 1149-1; Cat. III

Packaging: Individually double bagged for ISO 7, Grade C areas.

Clothing size	Pk	Cat. No.
S	15	113-7897
M	15	113-7898
L	15	113-7899
XL	15	113-7900
XXL	15	113-7901



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Cleanroom beard covers, VWR Basic, SPP



The VWR Basic SPP beard covers are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO certified facility, lot controlled and validated through independent laboratory testing.

- Lightweight and breathable first line barrier protection

Diameter (stretched): 406 mm

Type	Colour	Pk	Cat. No.
With latex	White	1.000	113-1463
Latex-free	White	1.000	113-1464



Beard covers, detectable

Beard cover for general, non critical applications.

- Detectable: Ideal for food industry
- Universal size fits all

Colour	Pk	Cat. No.
Blue	1.000	113-1580



Beard cover, BioClean Beard Snood™
Nitritex



Lightweight beard cover made of non woven polypropylene. Suitable for use in a variety of environments.

- Soft fabric
- Elasticated openings
- Comfortable headband loop

Width across face: 170 mm ± 5 mm

Colour	Pk	Cat. No.
White	1.000	113-8161

Cleanroom face veil, BioClean Softflow™
Nitritex



Suitable for use in ISO Class 4 cleanrooms.

Non sterile soft face veil with head loop and nosepiece, manufactured using ultrasonic bonding. Processed in a cleanroom environment.

- Veil is made from low linting thermabond non woven material
- White hydroentangled polyester binding and tubular polyester head loop
- Fully enclosed, flexible, malleable aluminium nosepiece coated with plastic
- Contains no latex

Colour: White

Size: 375x280 mm

Packaging: 100 veils per double bag; 10 bags per case (1000 veils).

Type	Size (mm)	Colour	Pk	Cat. No.
Non sterile veil (375 mm long), with headloop	375x280	White	100	113-8157

Disposable face masks

When choosing a face mask for cleanrooms and controlled environments, the balance between performance and comfort is a key consideration. The range of sterile and non sterile face masks and veils for medical supplies, personal protection equipment or for a cleanroom provides the most comprehensive choice of face protection against products and processes. Whether you need an extra wide breathing chamber to provide full face coverage or a light face veil for less critical applications, you can breathe easy.

Cleanroom face masks, BioClean Microflow™

Nitritex



Suitable for use in ISO Class 4 cleanrooms.

Non sterile soft face veil with headband and nosepiece, manufactured using Biochem ultrasonic bonding. Processed in a cleanroom environment.

- Veil is made from low linting thermabond non woven material
- White hydroentangled polyester binding and tubular polyester head loop
- Fully enclosed, flexible, malleable aluminium nosepiece coated with plastic
- Contains no latex

Colour: White; Size: 375x330 mm

Packaging: 100 veils per double bag; 10 bags per case (1000 veils).

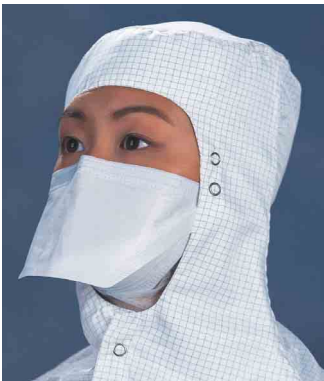
Type	Colour	Pk	Cat. No.
Non sterile, with head loop	White	1.000	113-8158

Cleanroom face masks, KIMTECH PURE* M3, PE/BiCoSof™

Kimberly-Clark



111-0050



111-0151

Suitable for Class 10, ISO 4, M2.5 cleanrooms.

- Outer layer of apertured PE film protects from contamination
- Excellent breathability with filtration of 99% at 0,5 µm
- Inner facing made of white BiCoSof™ and fully enclosed, soft, malleable aluminium nosepiece

Packaging: 50 per bag, 6 or 10 bags per case.

Type	Colour	Pk	Cat. No.
With ear loops	White	500	111-0050
With ties	White	500	113-0344
Pouch style with headband	White	300	111-0151

Cleanroom face masks, KIMTECH PURE* M6, PE/PP/BiCoSof™

Kimberly-Clark



Suitable for Class 1000, ISO 6, M4.5 cleanrooms.

This gross particulate mask provides basic protection for low-end cleanrooms. It contains no filter.

- Two-layer design
- BiCoSof™ fabric inner facing provides comfort
- Ultrasonic bonding

Type	Colour	Pk	Cat. No.
With earloops	White	500	113-0346



Cleanroom face masks, Maximum



- Maximum cleanroom masks feature three ply construction for superior particle and bacterial filtration efficiency. These masks are latex-free.
- Three ply masks provide high bacterial and particle filtration efficiency
 - Highly breathable and fluid resistant
 - A full length plastic arch holds the fabric away from the wearer’s mouth to allow cooler, more comfortable breathing
 - Malleable noseband ensures a custom, secure seal
 - Available with spandex ear loops or PP-ties, ultrasonically welded to maintain softness and guard against particulates
 - Moisture resistant, sterile mask features a unique, lightweight inner layer of film for enhanced moisture resistance

Colour: White or blue

LxH: 175x95 mm

Particle shedding (particles: ≥0,5 µm/cu. ft.): 196 (IEST-RP-CC003.3)

Bacterial filtration efficiency (%): >99 (ASTM F2101)

Particle filtration efficiency (%): >99 (ASTM F2299)

Delta P breathability (mm H₂O/cm²): 1.9 - 2.2 (MIL-M-36954C)

Rigorously tested and manufactured in an ISO certified facility; products are validated through independent laboratory testing.

Packaging: 50 masks per cleanroom compatible, heat sealed bag; 10 bags per case.

Type	Colour	Pk	Cat. No.
Non sterile, with ear loops	Blue	500	113-6220
Non sterile, with ties	White	500	113-6221
Sterile, with ear loops	White	500	113-6222



Cleanroom face masks, KIMTECH PURE* M3, PE
Kimberly-Clark



Suitable for use in Class 1, ISO 3, M1.5 environments or higher.

- Outer layer of apertured PE film protects from contamination
- Sterile polyester binding and polyester filter media
- Bacteria filtration efficiency of 94% and particle filtration efficiency of 93,1%

Packaging: Individually packed. Packs are double bagged.

Type	Size	Colour	Pk	Cat. No.
With ties	18 cm	White	200	111-9008
With ear loops	18	White	200	113-8201
With ties	23 cm	White	200	111-0365
With knitted headbands and anti-fog seal	-	White	200	113-0347

Cleanroom face masks, KIMTECH PURE*
Kimberly-Clark



Pleated masks that provide proven particle filtration to avoid contamination. The outer layer is made of low- lint aperture polyethylene. Particle Filtration Efficiency >96,9%.

- Thermalbond inner-facing provides high levels of comfort and good breathability
- Latex- and silicone-free for reduced risk of toxic reactions such as skin irritation
- Enclosed nose bridge to provide high comfort and minimised exposure
- Double bagged for cleanroom use

Type	Colour	Pk	Cat. No.
With earloops	White	500	113-8143
With ties	White	500	113-8144

Cleanroom face veils, KIMTECH PURE* M7, PE
Kimberly-Clark



- Suitable for cleanrooms ISO Class 7 or higher.
- Single use personal veil made from apertured PE film, with knitted headbands or snap fasteners.
- Designed to fit most garment systems
 - Intended for use in cleanrooms where reusable face veils are currently worn

Packaging: Packed 25 veils per double bag, 6 bags per case.

Type	Colour	Pk	Cat. No.
With snaps	White	150	113-0929
With headband	White	150	111-0384

Cleanroom face masks, BioClean 100™, PP
Nitritex



- Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.
- 3 ply tie on face masks made from ultra-low particulate non woven PP.
- Average Particle Count: 19/minute (particle size: 0,2 - 5,0 µm)
 - Particle Filtration Efficiency (PFE): 98% >0,5 µm
 - Available sterile or non sterile

W×H: 210×90 mm
ASTM F51-68

Packaging: Anti-static and silicone-free.

Type	Colour	Pk	Cat. No.
With ties	White	800	113-2251
With ties, sterile	White	500	113-2250



Cleanroom face masks, BioClean DB™, PE
Nitritex



- Suitable for use in Class 10, ISO 4, M2.5 environments.
- The sterile pouch style mask has knitted headbands and all seams are ultrasonically bonded. The mask has inner and outer facing layers constructed of spunbond non woven polyester with the middle filter layer of meltblown polyester.
- Patented spacer maintains a clear breathing space for the wearer, improving the overall comfort and ease of breathing. Plastic coated, soft malleable steel nose bridge is fully enclosed
 - Particle filtration efficiency: 0,3 µm 98,2%; bacteria filtration efficiency: 3,0 µm 97,9%
 - Available with or without integral neck guard to close the breach in protection between the coverall and throat of the wearer

Packaging: 1 mask per inner bag; 20 inner bags per outer bag; 10 outer bags per carton (200 pieces).

Type	Colour	Pk	Cat. No.
Without neck guard	White	200	113-0782
With neck guard	White	200	113-0783

Cleanroom face masks, BioClean MEA™, PP/PE
Nitritex



- Suitable for use in cleanrooms ISO Class 4.
- Individually packed non sterile or sterile face masks.
- Ultra low particulation
 - With PU earloops
 - Clip allows fastening at back of head
 - Fully enclosed, malleable nose-band

Colour: White, length: 210 mm

Type	Size (mm)	Colour	Pk	Cat. No.
Non sterile, with ear loops	210	White	2.000	113-1488
Sterile, with ear loops	210	White	600	113-8160



Cleanroom face masks with visors, BioClean Clearview™, PE/PP
Nitritex



- Suitable for use in Class 10, ISO 4, M2.5 environments.
- Face masks made from 3-ply PP/PE ultrasonic sealed fabric with integrated anti-fog visors. The outer facing consists of hydrophobic non woven PP, the filter layer of meltblown PE and the inner facing of hydrophilic PP/PE (Non Woven).
- No latex proteins
 - Particle filtration efficiency (PFE): >96%, bacterial filtration efficiency (BFE): >94%
 - Barcodes appear on the outer carton to allow automatic data entry into Stock Control Systems.
 - With ties or ear loops

LxW: 210x90 mm

Thickness (visor): 0,18 mm

Type	Colour	Pk	Cat. No.
With earloops	White	100	113-2266
With ties	White	100	113-2267



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Cleanroom bouffant caps, VWR Basic, SPP



The VWR Basic SPP bouffant caps are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms.

- Lightweight and breathable first line barrier protection
- Tested and manufactured in an ISO certified facility and lot controlled and validated through independent laboratory testing

Type	Ø (mm)	Colour	Pk	Cat. No.
Latex-free	530	White	1.000	113-1459
Latex-free	610	White	1.000	113-1460
With latex	530	White	1.000	113-1461
With latex	610	White	1.000	113-1462



Bouffant caps, PP, detectable



These detectable caps made of non woven polypropylene provide an effective way to cover the hair when working in hygienic environments.

- Increased detectability thanks to foil strip
- With two elastic bands for improved fit

Weight: 10 g/m²

Ø (mm)	Colour	Pk	Cat. No.
530	Blue	1.000	113-1578
610	Blue	1.000	113-1579



Cleanroom hoods, IsoClean®, model IC 668 B WH CS
DuPont®



This hood is made of Tyvek®, a flash spun high density polyethylene. The fabric is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low linting. Ideal for use in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

- Full face opening with loops and ties
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Clean processed and gamma-sterilised

Packaging: Individually packed under ISO Class 4 cleanroom conditions. 100 per box.

Colour	Pk	Cat. No.
White	100	113-8139

Cleanroom hoods, BioClean-D™, Clean-Tough™
Nitritex



- Suitable for use in Class 10, ISO 4, M2.5 environments.
- These disposable hoods are made of Clean-tough™ fabric which is spunbonded non woven PP laminated with a film of PE. The material provides protection against fine sprays and particles.
- Elasticated face opening, re-inforced edges
 - Lightweight, low linting and hard-wearing material
 - Available as sterile or non sterile version
 - A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Packaging:
Sterile version: 1 hood per sealed plastic bag, 30 individually sealed bags per sealed outer bag (30 pieces).
Non sterile version: 30 pieces per sealed double plastic bag; six bags of 30 per sealed carton liner; one carton liner per carton (180 pieces).

Type	Colour	Pk	Cat. No.
Non sterile	White	180	113-0799
Sterile	White	30	113-0823



Cleanroom hoods, KIMTECH PURE* A5
Kimberly-Clark



- Suitable for use in Class 100, ISO 5, M3,5 cleanrooms.
- These hoods are made of breathable SMS fabric that adds a cloth-like feel. They are available in a standard design with ties or with an integrated face mask.
- More breathable than many other leading brands
 - Filters 94% of particles as small as 0,5 µm
 - Pull-down ties in the back to assist in the gowning process
 - No gaps between hood and mask ensures exhaled air is filtered
 - Vacuum packed for added sterility assurance

Packaging: Double bagged.

Type	Colour	Pk	Cat. No.
Sterile, with ties	White	100	113-1527
Sterile, with integrated mask	White	75	113-7732



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Cleanroom shoe covers, non skid, VWR Maximum, SF



VWR Maximum SF shoe covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Non skid and anti-static
- Impervious to fluids
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low linting fabric

Length: 359 mm (U*), 292 mm (M), 324 mm (L), 381 mm (XL)

Size	Colour	Pk	Cat. No.
M	White	200	113-1371
L	White	200	113-1372
XL	White	200	113-1370
U*	White	200	113-1369
M	Blue	200	113-1375
L	Blue	200	113-1376
XL	Blue	200	113-1374
U*	Blue	200	113-1373

*One size fits all



Cleanroom shoe covers, non skid, VWR Advanced, SF



VWR Advanced SF shoe covers are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- High coefficient of friction to provide excellent traction
- Water resistant
- Durable fabric with good breathability
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Length: 394 mm (U*), 432 mm (XL), 470 mm (XXL)

Type	Size	Colour	Pk	Cat. No.
Static dissipative	U*	Blue	300	113-1377
Static dissipative	XL	Blue	300	113-1378
Standard	U*	Blue	300	113-1382
Standard	XL	Blue	300	113-1383
Standard	XXL	Blue	300	113-1384

*One size fits all



Shoe covers, CPE

Basic shoe covers made of CPE, for laboratory use.

- CPE is water resistant and provides good resistance against chemicals

Size	Colour	Pk	Cat. No.
U*	White	1.000	113-1491
U*	Blue	1.000	113-1492

*One size fits all



Cleanroom shoe covers, fluid impervious, Butterfly-Style, VWR Maximum, SF



VWR Maximum SF shoe covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) with breathable polyethylene film coating, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Non skid and anti-static
- Fluid and particle impervious, sealed seams to repel water
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low linting fabric

Length: 394 mm (U*), 432 mm (XL), 483 mm (XXL)

Size	Colour	Pk	Cat. No.
U*	Blue	150	113-1366
XL	Blue	150	113-1367
XXL	Blue	150	113-1368
U*	White	150	113-1379
XL	White	150	113-1380
XXL	White	150	113-1381

*One size fits all

Cleanroom shoe covers, KIMTECH PURE* A8 UNITRAX
Kimberly-Clark



These shoe covers made of poly-film laminated fabric are ideal for use in clean manufacturing environments. They provide wet and dry splash and particle protection.

- Low linting for contamination control
- Superior non skid design: Provide 4X more grip than leading alternatives
- Seamless sole for better comfort
- Elasticated toe and heel
- Thread colour (blue, white or black) indicates size

Packaging: Double bagged.

Size	Colour	Pk	Cat. No.
S/M	White	300	113-8198
U*	White	300	113-8199
XL/XXL	White	300	113-8200

* One size fits all.



Cleanroom shoe covers with conductive tape, BioClean SafeStep ESD™
Nitritex



These covers are made of spunbonded PP with proprietary elastomer coating. The conductive tape is constructed from polyester filament yarn (96%) with conductive nylon carbon filament yarn (4%). The conductivity is consistently below 35 Megohms.

- Processed in a cleanroom environment to ensure compatibility with ISO Class 5 operating conditions
- Non marking conductive tape provides excellent dissipative properties
- Slip resistant sole
- Elastomer coated for excellent durability

Thickness: 0,14 mm

Elongation: 120%

Packaging: 100 pieces per bag; four bags per carton (400 pieces).

Size (mm)	Colour	Pk	Cat. No.
400×170	White	400	113-8156

Chemical resistant shoe covers, BioClean Durableu™
Nitritex



These durable shoe covers are made of non woven, spun bonded PP lamianted with CPE. The fabric is resistant to a wide range of liquid chemicals. Also suitable for use in cleanroom environments.

- Resistant against tears, rips and abrasions
- Low levels of particle shedding
- High tensile strength
- Slip resistant sole

Length: 355, 400 or 455 mm
Height: 170 mm
Tearing strength: 5,0 kg
Thickness: 0,32 mm

Packaging: 50 pieces per sealed inner bag; one inner bag per sealed outer bag; eight outer bags per carton (400 pieces).

Size (mm)	Colour	Pk	Cat. No.
355x170	Blue	400	113-8153
400x170	Blue	400	113-8154
455x170	Blue	400	113-8155

Cleanroom shoe covers, BioClean™ CPE
Nitritex



These disposable shoe covers are manufactured from cast polyethylene (CPE).

- Heavy duty construction
- Very low levels of particle shedding

Length: 400 mm
Height: 150 mm
Piece weight: 4,0 g
Elongation: max. 120%

Packaging: 100 pieces per sealed PE inner bag; 20 PE bags per carton (2000 pieces).

Size (mm)	Colour	Pk	Cat. No.
400x150	Blue	2.000	113-8159



ESD shoe covers, BioClean 100™, PP
Nitritex



The anti-static ESD disposable overshoes with conductive tape are manufactured from non woven spun-bonded polypropylene.

- Superior ESD performance
- Fitted with a polyester conductive ribbon with a conductive carbon filament
- Non marking ribbon
- Low levels of particulate shedding and double bagged for cleanroom use

Length: 400 or 455 mm

Size (mm)	Colour	Pk	Cat. No.
400	White	1.000	113-0815
455	White	100	113-0817
455	Blue	100	113-0816



Cleanroom boot covers, non skid, VWR Maximum, SF



VWR Maximum SF boot covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Non skid
- Impervious material
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low linting fabric

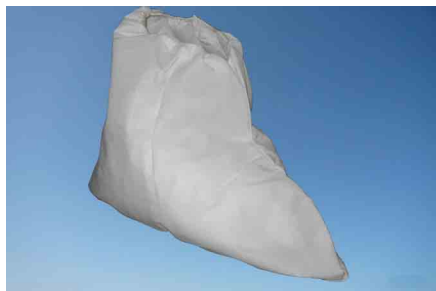
Length: 286 mm (M), 356 mm (U*), 381 mm (XL)

Type	Size	Colour	Pk	Cat. No.
Without ankle ties	M	White	100 PAIR	113-1187
Without ankle ties	L	White	100 PAIR	113-1188
Without ankle ties	XL	White	100 PAIR	113-1189
With ankle ties	M	White	100 PAIR	113-1192
With ankle ties	XL	White	100 PAIR	113-1191
With ankle ties	U*	White	100 PAIR	113-1190

*One size fits all



Cleanroom boot covers, fluid impervious, VWR Maximum, SF



VWR Maximum SF boot covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) with breathable polyethylene film coating, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Non skid and anti-static
- Fluid impervious, sealed seams to repel water
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces

Length: 381 mm (U*), 419 mm (XL), 470 mm (XXL)

Size	Colour	Pk	Cat. No.
XL	Blue	100 PAIR	113-1184
XXL	Blue	100 PAIR	113-1185
U*	White	100 PAIR	113-1186

*One size fits all



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Cleanroom boot covers, KIMTECH PURE* A5
Kimberly-Clark



Suitable for use in Class 100, ISO 5, M3.5 environments.

The sterile KIMTECH PURE* cleanroom boot covers are made of SMS (Spunbond Meltblown Spunbond) material that gives them a cloth-like feeling. Available with standard vinyl sole or with wrap-around vinyl foot.

- Wrap-around vinyl foot is seamed above the floor line to reduce risk of liquid penetration and trip hazards
- Tunneled elastic and bound seams
- Two extra long ties

Packaging: Vacuum packed in pairs for added sterility assurance.

Type	Size	Colour	Pk	Cat. No.
Standard vinyl sole				
Standard vinyl sole	U*	White	100 PAIR	113-7736
Standard vinyl sole	S/M	White	100 PAIR	113-7735
Standard vinyl sole	XL	White	100 PAIR	113-7737
Wrap-around vinyl foot				
Wrap-around vinyl foot	U*	White	100 PAIR	113-1227
Wrap-around vinyl foot	S/M	White	100 PAIR	113-8197
Wrap-around vinyl foot	XL/XXL	White	100 PAIR	113-7734

*One size fits all

Cleanroom boot covers, BioClean™ ST0001
Nitritex



Suitable for use in Class 10, ISO 4, M2.5 and above cleanrooms.

These boot covers are made of 99% polyester and 1% carbon. They feature studs for easy attachment to overalls.

- Crepe sole
- Elasticated top, ankle and bridge

Size	Colour	Pk	Cat. No.
M	Green	1 PAIR	113-8172
L	Green	1 PAIR	113-8169

Cleanroom boot covers, BioClean-D™, Clean-Tough™
Nitritex



Suitable for use in Class 10, ISO 4, M2.5 environments.

These disposable boot covers are made of BioClean-D™, a lightweight, low linting and hard-wearing fabric (PP laminated with a film of PE) which provides maximum comfort and protects against against fine sprays and particles.

- Slip resistant Safe-Step™ sole enhances wearer safety
- Available as sterile or non sterile version
- Elasticated top with secure ties
- A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Length: 400 mm

Type PB [6], Cat. III

Packaging: Sterile version: One pair per sealed plastic bag, 15 sealed bags per sealed outer bag, five sealed bags of 15 pairs per sealed carton liner, one carton liner per carton (75 pairs).
Non sterile version: 5 bags of 30 pieces per sealed carton liner; one carton liner per carton (150 pieces).

Type	Size	Colour	Pk	Cat. No.
Non sterile	400×480	White	75 PAIR	113-0814
Sterile	400×480	White	75 PAIR	113-2265



Boot covers, IsoClean®, Tyvek®
DuPont®



These sterile boot covers are composed of Tyvek® fabric (flash spun high density PE). Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low linting. Ideal for use in biotech, pharmaceutical and medical device manufacturing, in electronics industries, as well as in other critical or controlled environments.

- Fixation ankle ties, tunnelled elastics at ankles
- Gripper™ soles provide enhanced skid-resistance and durability
- Clean processed and gamma-sterilised
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration

Height: 457 mm

Packaging: 100 per box, individually packed.

Size	Colour	Pk	Cat. No.
M	White	100	113-8140
XL	White	100	113-8141



Cleanroom boot covers, Tyvek®
DuPont®



Boot covers made from Tyvek® (1431 N, anti-static) are recommended for protection against non hazardous dirt and materials.

- Easily recycled (can also be incinerated)
- With or without skid resistant, grained, polyethylene sole
- Anti-static treatment on both sides

Density: 41 g/m²

LxW: 420x480 mm

Type	Size	Colour	Pk	Cat. No.
Regular	U*	White	200	113-0489
Skid resistant	U*	White	200	113-0490

*One size fits all



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Chemo protective aprons with sleeves, BioClean-C™
Nitritex



These disposable aprons are made of CleanTough™ fabric, a spunbonded non woven PP fabric laminated with a film of PE. The elasticated cuffs are made of 100% polyester. Provide protection against fine sprays and particles as well as against a range of chemotherapy drugs.

- Processed to ensure ISO Class 4 compatibility
- Lightweight, low linting and hard-wearing CleanTough™ fabric
- Ultrasonically bonded seams with protective tape
- Adjustable neck fastening
- Tie tapes at the waist

Colour: Blue

Type PB[6]; Cat. III

Packaging: One sealed pice per sealed inner bag; one sealed inner bag per sealed outer bag; 40 outer bags per carton liner; one carton liner per carton (40 pieces).

Size	Colour	Pk	Cat. No.
Sterile			
S	Blue	40	113-8164
M	Blue	40	113-8163
L	Blue	40	113-8162
Non sterile			
S	Blue	40	113-8148
M	Blue	40	113-8147
L	Blue	40	113-8146



Chemo protective aprons, BioClean-C™
Nitritex



These disposable aprons are made of CleanTough™ fabric, a spunbonded non woven PP fabric laminated with a film of PE. The aprons provide protection against fine sprays and particles as well as against a range of chemotherapy drugs.

- Processed to ensure ISO Class 4 compatibility
- Lightweight, low linting and hard-wearing CleanTough™ fabric
- Adjustable neck fastening
- Tie tapes at the waist

Colour: Blue

Type PB[6]; Cat. III

Packaging: One piece per sealed inner bag; one sealed inner bag per sealed outer bag; 50 outer bags per carton liner; one carton liner per carton (50 pieces).

Size	Colour	Pk	Cat. No.
Non sterile			
S	Blue	50	113-8151
M	Blue	50	113-8150
L	Blue	50	113-8149
Sterile			
S	Blue	50	113-8167
M	Blue	50	113-8166
L	Blue	50	113-8165



Cleanroom sleeve protectors, VWR Advanced, SF



VWR Advanced SF sleeve protectors are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO certified facility under stringent process controls. Lot controlled and validated through independent laboratory testing.

- Elasticated cuffs, with sonically welded seams
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particle barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Length (mm)	Colour	Pk	Cat. No.
495	White	300	113-1194
546	White	300	113-1193



Sleeve protectors, IsoClean®, Tyvek®, IC 501
DuPont®



Comfortable and lightweight sleeve protector made of durable Tyvek® flashspun polyethylene which provides an excellent barrier to dry particles, microorganisms and non hazardous liquids.

- Bound seams
- Covered elastic wrist and bicep
- Gamma-sterilised, 10⁻⁶ Sterility Assurance Level (SAL)

Packaging: Individually packaged under cleanroom conditions in an opaque bag and placed in double transparent poly liners.

Length (mm)	Colour	Pk	Cat. No.
457	White	50 PAIR	113-8138



Cleanroom sleeve protectors, KIMTECH PURE* A5
Kimberly-Clark



Suitable for class 100, ISO Class 5 or higher cleanrooms.

These sterile sleeve protectors are made of durable SMS fabric which provides a cloth-like feel. A highly visible blue line along the inside of the sleeve signals the proper place to grasp while donning, helping workers avoid touching the outside.

- Thumb loop keeps sleeve from rolling back and exposing arm or wrist
- Tunneled elastic and bound seams
- Triple bagged

Type 6; Cat. III

Length (mm)	Colour	Pk	Cat. No.
457	White	100 PAIR	113-7733



Cleanroom sleeve protectors, BioClean-D™
Nitritex



- Suitable for use in Class 10, ISO 4, M2.5 cleanrooms.
- These extra long BioClean-D™ disposable sleeve covers are made from CleanTough™ fabric, which is spunbonded non woven PP laminated with a film of PE. This fabric allows comfort and flexibility during use and protection against fine sprays and particles.
- Lightweight, low linting and hard-wearing material
 - Elasticated arms and cuffs
 - Available as sterile or non sterile version
 - A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Type PB [6]; Cat. III

Packaging: Sterile version: One pair per sealed plastic bag, 15 sealed plastic bags (30 pieces) per sealed outer bag, six outer bags (30 pieces) per sealed carton liner, one carton liner per carton (180 pieces / 90 pairs).

Non sterile version: 15 pairs per sealed inner plastic bag, one inner bag per sealed outer bag, six outer bags of 15 pairs per sealed carton liner, one carton liner per carton (90 pairs).

Length (mm)	Colour	Version	Pk	Cat. No.
500	White	Non sterile	180	113-8034
500	White	Sterile	90 PAIR	113-8035



Cleanroom sleeve protectors, BioClean-C™
Nitritex



- Suitable for use in Class 10, ISO 4, M2,5 cleanrooms.
- These chemotherapy sleeve protectors are made of CleanTough™ fabric with 100% polyester cuffs. They are processed to ensure ISO Class 4 compatibility and provide maximum protection against a range of chemotherapy drugs.
- Ultrasonically bonded seams with protective tape
 - Lightweight, low linting and hard-wearing
 - Elasticated cuffs
 - Available sterile or non sterile

Type PB [6]; Cat. III

Packaging: Six bags of 15 pairs (90 individually packed pairs) per carton.

Colour	Version	Pk	Cat. No.
Blue	Non sterile	180	113-8152
Blue	Sterile	90 PAIR	113-8168



VWR COLLECTION CATALOGUE

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EYE PROTECTION

Cleanroom goggles47



Complex problems require sophisticated solutions

For over 160 years, our customers have been challenged with finding the answers that help improve lives. Our mission is to identify product and service solutions, while eliminating process complexities to help labs and production facilities to work better and faster.

Through our global reach and knowledgeable teams, we proudly excel in delivering solutions that improve productivity, accelerate discovery and encourage innovation.

At VWR, we are focussed on your success because... **together, We Enable Science**





Cleanroom goggles, autoclavable



Lightweight cleanroom goggles, suitable for ISO Class 4 environments.

- Soft, thermoplastic body with toughened polycarbonate lens
- Strap with polypropylene strap hooks
- Indirect base ventilation
- Autoclavable at 121 °C

EN 166:2001; Optical Class 1

Packaging: Packed in a NEBB Certified ISO Class 4 (Class 10) cleanroom. One piece per PE bag.

Type	Lenses	Colour	Pk	Cat. No.
Anti-scratch	Clear PC	Blue	1	111-0614

Description	Pk	Cat. No.
Accessories		
Replacement lens for autoclavable cleanroom goggles	10	111-0599



Goggles, Blast Autoclave
Bollé Safety



Specific ultra-comfort goggle suitable for cleanrooms. The goggles fit over prescription spectacles and can be worn with respiratory half masks. The special autoclavable frame and the reinforced ventilation improve the wearing comfort.

- Adjustable clean strap and ventilated frame
- Clear, uncoated PC lenses for panoramic vision
- Liquid overflow chute

Weight: 103 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Anti-fog	Clear PC	Transparent	1	111-0668



Cleanroom goggles, Coverall Autoclave
Bollé Safety



These cleanroom Coverall goggles with interchangeable ventilation ensure protection and comfort. It is possible to wear prescription spectacles under them.

- Uncoated polycarbonate lens
- Adjustable strap
- Upper indirect and interchangeable ventilation
- Ultra-comfort autoclavable goggles

Weight: 54 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Cleanroom	Clear PC	Transparent	1	111-0990



Cleanroom goggles, autoclavable, Ultrasonic CR
Uvex



These goggles provide wearers with excellent comfort, functionality and an innovative design. Suitable for use over prescription spectacles. Ideal for use in cleanrooms and in food processing, medical and pharmaceutical industries.

- Ultra-light autoclavable goggles with anti-fog effect on inner lens surface
- Autoclavable at least 10 times at 121 °C for 20 min.
- Non allergenic material - free of harmful substances
- With panorama lens, duo component technology and adjustable silicone headband
- Indirect ventilation ensures a pleasant and comfortable interior environment
- Easy lens replacement

Weight: 98 g

EN DIN 166, optical Class 1

Type	Lenses	Colour	Pk	Cat. No.
Autoclavable, anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	White	1	111-1596



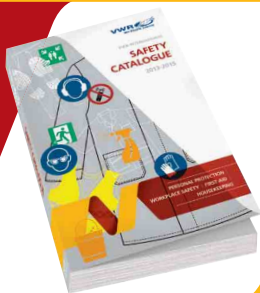
Sterile anti-fog solution for autoclavable goggles, BioClean™
Nitritex



Sterile anti-fog spray for autoclavable goggles.

- Only two sprays to be applied on the inside of the goggles
- Excess liquid from the inside to be dried by cleanroom wipe
- To be used after each autoclave cycle
- Sterilised by gamma irradiation

Description	Pk	Cat. No.
Sterile anti-fog solution for autoclavable goggles, BioClean, 60 ml bottle	10	113-8145



VWR SAFETY CATALOGUE

From head to toe protection

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GLOVES AND FINGERCOTS

Cleanroom nitrile gloves, disposable	50
Cleanroom nitrile gloves, disposable - sterile	55
Cleanroom latex gloves, disposable	58
Cleanroom latex gloves, disposable - sterile	60
Cleanroom vinyl gloves, disposable	65
Cleanroom neoprene, polychloroprene and polyisoprene	66
Cotton gloves, knitted	71
Nylon gloves, knitted	72
Gauntles and isolator gloves	74
Glove dispensers	84
Glove liners	85
Fingercots	87

CLEANROOM GLOVES AND FINGERCOTS

In cleanrooms, gloves and fingercots are used to protect sensitive products and also operators from contamination.

We offer a wide range of gloves for cleanrooms and controlled environments relating to technical and functional needs required for medical supplies, personal protection or cleanroom. Performance requirements such as grip, comfort and length vary and influence the glove selection for different applications.

Sterile and non sterile ISO Class 4 and 5 compatible gloves, especially for life science cleanroom applications, offer extreme comfort, strength and tactility.

We strongly recommend you test the gloves in a practical application before choosing a specific model!

Disposable gloves
(dispenser box):

- Latex
- Nitrile

Other materials are available on request

Disposable cleanroom gloves for controlled environments
(packed in polybags):

- Nitrile
- Latex
- PE
- Vinyl (PVC)

Protective gloves
(packed in polybags):

- Suitable for cytotoxic applications
- Chemical resistant
- Heat resistant

Fingerbots
(packed in polybags):

- Latex (normal and anti-static)
- Nitrile

Textile gloves
(packed in polybags):

- Knitted synthetic fibres (coated, uncoated, conductive)
- Cut resistant

Stitched gloves available!

Sterile cleanroom gloves
(packed in pairs):

- Nitrile
- Latex

Samples available on request!

Our recommendation: Use textile gloves as glove liners to reduce sweating while wearing sterile latex and nitrile cleanroom gloves.

Use cuff stripes for an effective seal between glove and cleanroom garment.



Cleanroom gloves, KIMTECH PURE* G3 and G5 STERLING*
Kimberly-Clark



Nitrile, non sterile, powder-free, textured fingertips

Suitable for Class 1/ISO 3 (STERLING* G3) or Class 100/ISO 5 (STERLING* G5) cleanrooms.

Ambidextrous latex-free gloves with beaded cuffs. Suitable applications include: semiconductor, medical device, flat panel display, pharmaceutical environments, disk drive manufacturing and electronics.

- 100% nitrile for lower risk of glove-induced allergic type 1 reactions
- Textured fingertips for improved grip
- Static dissipative material for reduced ESD effect
- STERLING* process allows a reduction in glove thickness, so less force is required to stretch the material
- Reduced glove thickness requires less raw materials in production which significantly reduces waste and saves storage place

EN 374-1/-2; Cat. III; AQL 1,5

Packaging: 250 gloves per double bagged PE pouch. 6 pouches per carton (1500 gloves per carton).

Model	G3 Sterling	G5 Sterling
Ambidextrous/Hand-specific	Ambidextrous	
Disposable/Reusable	Disposable	
Cleanroom Class	1/ISO 3	100/ISO 5
Cuff style	Beaded	
Cuff thickness	0,07 mm	
Finger thickness	0,10 mm	
Palm thickness	0,08 mm	

Model	Colour	Length (mm)	Size	Packed	Pk	Cat. No.
G3 Sterling	Grey	300	XS	6 bags, 250 each	1.500	112-4877
G3 Sterling	Grey	300	S	6 bags, 250 each	1.500	112-4878
G3 Sterling	Grey	300	M	6 bags, 250 each	1.500	112-4879
G3 Sterling	Grey	300	L	6 bags, 250 each	1.500	112-4880
G3 Sterling	Grey	300	L+	6 bags, 250 each	1.500	112-4881
G3 Sterling	Grey	300	XL	6 bags, 250 each	1.500	112-4882
G5 Sterling	Grey	300	XS	6 bags, 250 each	1.500	112-4871
G5 Sterling	Grey	300	S	6 bags, 250 each	1.500	112-4872
G5 Sterling	Grey	300	M	6 bags, 250 each	1.500	112-4873
G5 Sterling	Grey	300	L	6 bags, 250 each	1.500	112-4874
G5 Sterling	Grey	300	L+	6 bags, 250 each	1.500	112-4875
G5 Sterling	Grey	300	XL	6 bags, 250 each	1.500	112-4876



Cleanroom gloves, KIMTECH PURE* G3 NXT*
Kimberly-Clark



Nitrile, non sterile, powder-free, textured fingertips

Suitable for Class 1, ISO 3, M1.5 cleanrooms.

Ambidextrous gloves with beaded cuffs. Contain no natural rubber latex.

- Textured fingertips to facilitate control and grip
- Static dissipative in use
- Increased cleanliness

EN 374-1/-2, Cat. III, AQL 1,5

Packaging: Packaged in cleanroom-compatible polyethylene, 100 gloves per double poly bag, 10 bags per pack.

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	1/ISO 3
Cuff style	Beaded
Cuff thickness	0,10 mm
Finger thickness	0,16 mm
Palm thickness	0,13 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	300	XS	10 bags, 100 each	1.000	112-4820
White	300	S	10 bags, 100 each	1.000	112-4821
White	300	M	10 bags, 100 each	1.000	112-4822

Gloves and fingercots

Cleanroom nitrile gloves, disposable

Continued from previous page

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	300	L	10 bags, 100 each	1.000	112-4823
White	300	L+	10 bags, 100 each	1.000	112-3486
White	300	XL	10 bags, 100 each	1.000	112-4824



Cleanroom gloves, Nitrilite® Silky Ultra-Clean

Ansell



Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

These ambidextrous silicone-free gloves meet the requirements of the electronic device manufacturing and biotechnologies industries.

- Produced in a controlled powder-free environment
- Free of latex proteins, preventing the risk of allergies
- Excellent puncture and chemical resistance
- Optimal electrical properties

Purity: <400 particles/cm²

EN 374, Cat. III; AQL 1.5

Packaging: 50 gloves vacuum-sealed in an unprinted polybag, two bags of 50 gloves per master polybag.

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded

Colour	Length (mm)	Thickness (mm)	Size	Packed	Pk	Cat. No.
White	305	0,12	6 - 6,5	20 bags, 50 each	1.000	112-3479
White	305	0,12	7 - 7,5	20 bags, 50 each	1.000	112-3480
White	305	0,12	8 - 8,5	20 bags, 50 each	1.000	112-3481
White	305	0,12	9 - 9,5	20 bags, 50 each	1.000	112-3482
White	305	0,12	10 - 10,5	20 bags, 50 each	1.000	112-3478



Cleanroom gloves, Nitrilite®

Ansell



Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

These ambidextrous silicone-free gloves are produced in a controlled environment. They feature exceptionally low levels of extractables and particles for excellent product protection. Ideal for a wide range of industrial sectors, from electronics to paint shops in automotive manufacturing and biotechnologies.

- Free of latex proteins, preventing the risk of allergies
- Excellent puncture and chemical resistance
- Optimal electrical properties

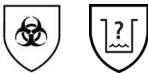
Purity: <2400 particles/cm²

EN 374, Cat. III; AQL 2.5

Packaging: Nitrilite® gloves are double wrapped in cleanroom-compatible packaging and packed in a lined shipping carton. 10 master bags per lined carton. 1,000 gloves per case. All packaging and labeling is printed with IPA resistant ink. The gloves are double bagged for superior contamination control. Packed in a Class 100 cleanroom.

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded

Colour	Length (mm)	Thickness (mm)	Size	Packed	Pk	Cat. No.
White	305	0,12	5,5 - 6	10 bags, 100 each	1.000	112-1166
White	305	0,12	6,5 - 7	10 bags, 100 each	1.000	112-0455
White	305	0,12	7,5 - 8	10 bags, 100 each	1.000	112-0456
White	305	0,12	8,5 - 9	10 bags, 100 each	1.000	112-1165
White	305	0,12	9,5 - 10	10 bags, 100 each	1.000	112-0461



Cleanroom gloves, BioClean Biotac™
Nitritex



Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 100, ISO 5 or M.3 cleanrooms.

Ambidextrous gloves with beaded cuffs provide excellent grip.

- Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
- Latex-free to eliminate Type I latex allergies
- Excellent ESD properties
- Beaded cuff provides easier donning and stability on the arm
- Each size carries a unique barcode on the outer bag of 100 pieces and the outer carton, which allows automatic data entry into stock control systems

EN 455, EN 374; Cat. III; AQL 1,5

Packaging: 100 pieces per sealed PE bag; one sealed PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 gloves).

Ambidextrous/Hand-specific	Ambidextrous				
Disposable/Reusable	Disposable				
Cleanroom Class	100/ISO 5				
Cuff style	Beaded				

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	300	XS	10 bags, 100 each	1.000	112-3083
White	300	S	10 bags, 100 each	1.000	112-3071
White	300	M	10 bags, 100 each	1.000	112-3070
White	300	L	10 bags, 100 each	1.000	112-3069
White	300	XL	10 bags, 100 each	1.000	112-3072
White	300	XXL	10 bags, 100 each	1.000	112-3073



Cleanroom gloves, BioClean Nano 4™
Nitritex



Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These nitrile gloves with beaded cuffs provide good resistance against chemicals. They also have excellent ESD properties.

- Contain no natural latex proteins, hypoallergenic
- Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
- Textured fingers provide enhanced grip

EN 374; Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4				
Cuff style	Beaded				

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	300	XS	10 bags, 100 each	1.000	112-3313
White	300	S	10 bags, 100 each	1.000	112-3311
White	300	M	10 bags, 100 each	1.000	112-3310
White	300	L	10 bags, 100 each	1.000	112-3309
White	300	XL	10 bags, 100 each	1.000	112-3312
White	300	XXL	10 bags, 100 each	1.000	112-3314



Cleanroom gloves, BioClean Nerva™
Nitritex



Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These ambidextrous nitrile gloves with beaded cuffs provide good resistance against chemicals. They also have excellent ESD properties.

- Contain no natural latex proteins, hypoallergenic
- Extended length provides protection of the forearm
- Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
- Textured fingers provide enhanced grip

EN 455, EN 374; Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4				
Cuff style	Beaded				
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	400	S	10 bags, 100 each	1.000	112-3850
White	400	M	10 bags, 100 each	1.000	112-3849
White	400	L	10 bags, 100 each	1.000	112-3848
White	400	XL	10 bags, 100 each	1.000	112-3851
White	400	XXL	10 bags, 100 each	1.000	112-3852



Cleanroom gloves, BioClean Synergy™
Nitritex



Nitrile, non sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These ambidextrous nitrile gloves with beaded cuffs provide good resistance against a wide range of chemicals. They also provide superb tactility and comfort.

- Contain no natural latex proteins, hypoallergenic
- Accelerator-free
- Textured surface for enhanced grip and beaded cuffs for easy donning
- Suitable as a double-donnable glove

EN 455, EN 374; Cat. III; AQL 1,5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4
Cuff style	Beaded

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Green	300	XS	10 bags, 100 each	1.000	112-3884
Green	300	S	10 bags, 100 each	1.000	112-3882
Green	300	M	10 bags, 100 each	1.000	112-3881
Green	300	L	10 bags, 100 each	1.000	112-3880
Green	300	XL	10 bags, 100 each	1.000	112-3883
Green	300	XXL	10 bags, 100 each	1.000	112-3885



Cleanroom gloves, KIMTECH PURE* Sterile G3
Kimberly-Clark



Nitrile, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3 or M1.5 cleanrooms.

Hand-specific, sterile gloves with beaded cuff for cleanroom applications.

- Excellent dexterity and tactile sensitivity
- Contains no natural rubber latex or silicone
- Fully textured for improved grip
- Low endotoxin levels
- Validated to a Sterility Assurance Level (SAL) of 10⁻⁶

EN 374-1/-2; Cat. III, AQL 1,5

Packaging: Walleted and pouched in polyethylene for cleanroom use. 1 pair/poly pouch, 20 pairs/ double poly bag, 10 double bags (200 pairs)/case.

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	1/ISO 3
Cuff style	Beaded
Cuff thickness	0,10 mm
Finger thickness	0,16 mm
Palm thickness	0,13 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	300	6	10 bags, 20 pairs each	200 PAIR	112-4837
White	300	6,5	10 bags, 20 pairs each	200 PAIR	112-4838
White	300	7	10 bags, 20 pairs each	200 PAIR	112-4839
White	300	7,5	10 bags, 20 pairs each	200 PAIR	112-4840
White	300	8	10 bags, 20 pairs each	200 PAIR	112-4841
White	300	8,5	10 bags, 20 pairs each	200 PAIR	112-4842
White	300	9	10 bags, 20 pairs each	200 PAIR	112-4843
White	300	10	10 bags, 20 pairs each	200 PAIR	112-4844



Cleanroom gloves, KIMTECH PURE* G3 Sterile Sterling*
Kimberly-Clark



Nitrile, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3 or M1.5 cleanrooms or higher.

Hand-specific, sterile gloves with beaded cuff for cleanroom applications. When double-donned, these gloves deliver the equivalent feel and dexterity of a single latex glove without the risk of Type I latex allergic reactions.

- Environmentally responsible thanks to improved packaging that saves waste
- Static dissipative in use
- Comfortable fit, suitable for double donning
- Particles per cm² ≥0,5 micron: max. 1200

EN 374-1/-2; Cat. III; AQL 1,5

Packaging: Double packed in polyethylene. 30 pairs per bag.

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	1/ISO 3
Cuff style	Beaded
Cuff thickness	0,07 mm
Finger thickness	0,10 mm
Palm thickness	0,08 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Grey	300	6	10 bags, 30 pairs each	300 PAIR	112-1858
Grey	300	6,5	10 bags, 30 pairs each	300 PAIR	112-1859
Grey	300	7	10 bags, 30 pairs each	300 PAIR	112-1860
Grey	300	7,5	10 bags, 30 pairs each	300 PAIR	112-1861
Grey	300	8	10 bags, 30 pairs each	300 PAIR	112-1862
Grey	300	8,5	10 bags, 30 pairs each	300 PAIR	112-1863
Grey	300	9	10 bags, 30 pairs each	300 PAIR	112-1864
Grey	300	10	10 bags, 30 pairs each	300 PAIR	112-1865



Cleanroom gloves, TouchNTuff® 93-700
Ansell



Nitrile, sterile, powder-free, textured fingertips
Manufactured from nitrile, these gloves offer a high chemical resistance and three times the puncture resistance of standard latex gloves. The gloves are thin enough to offer the dexterity for precision work, yet tough enough to resist tears and chemical contact. They are suitable for applications in critical environments (ISO Class 5 or higher) requiring sterility.
• Beaded cuffs for easier donning
• Unique formulation provides a high level of comfort and increased protection in the forearm (longer cuff)
• Free of natural rubber latex proteins: glove may be worn by latex-sensitive (Type I) wearers
• Gloves are post cleaned, single pair packed and sterilised to deliver the optimum solution for critical environment applications

EN 374, EN 421, Cat. III; AQL 1.5

Packaging: One pair per poly wallet, sealed in a poly envelope; 10 pairs per sealed polybag; 5 sealed polybags per master bag; 4 master bags per case liner; 200 pairs per carton. All packaging is printed with cleanroom-compatible, IPA resistant ink. The polybags have an easy-tear opening. The gloves are triple bagged for superior contamination control.

Table with 2 columns: Property (Ambidextrous/Hand-specific, Disposable/Reusable, Cleanroom Class, Cuff style) and Value (Hand-specific, Disposable, 100/ISO 5, Beaded).

Table with 7 columns: Colour, Length (mm), Thickness (mm), Size, Packed, Pk, Cat. No. Rows include Green gloves in sizes 6,5, 7,5, 8,5, and 9,5.



Cleanroom gloves, BioClean N-Plus™
Nitritex



Nitrile, sterile, powder-free, textured finish
Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.
These hand-specific nitrile gloves with beaded cuffs provide good resistance against chemicals and cytotoxic drugs. They also have excellent ESD properties. Suitable for chemotherapy applications.

- Contain no natural latex proteins, hypoallergenic
• Extended length provides protection up to the elbow
• Textured surface for enhanced grip and beaded cuffs for easy donning

EN 455, EN 374; Cat. III; AQL 1.5

Packaging: One cuffed pair per plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs)

Table with 2 columns: Property (Ambidextrous/Hand-specific, Disposable/Reusable, Cleanroom Class, Cuff style) and Value (Hand-specific, Disposable, 10/ISO 4; EU GMP (A), Beaded).

Table with 6 columns: Colour, Length (mm), Size, Packed, Pk, Cat. No. Rows include White gloves in sizes 6, 6,5, 7, 7,5, 8, 8,5, 9, and 10.



Cleanroom gloves, BioClean Nitramax™
Nitritex



Nitrile, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These hand-specific nitrile gloves with beaded cuffs provide good resistance against chemicals. They also have excellent ESD properties.

- Contain no natural latex proteins, hypoallergenic
- Extended length provides protection of the entire arm
- Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
- Textured fingers provide enhanced grip

EN 455, EN 374; Cat. III; AQL 1.5

Packaging: One cuffed pair per plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 10 outer bags per carton liner; one carton liner per carton (100 pairs).

Ambidextrous/Hand-specific	Hand-specific				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4; EU GMP (A)				
Cuff style	Beaded				
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	600	6,5	10 bags, 10 pairs each	100 PAIR	112-3859
White	600	7	10 bags, 10 pairs each	100 PAIR	112-3860
White	600	7,5	10 bags, 10 pairs each	100 PAIR	112-3861
White	600	8	10 bags, 10 pairs each	100 PAIR	112-3862
White	600	8,5	10 bags, 10 pairs each	100 PAIR	112-3863
White	600	9	10 bags, 10 pairs each	100 PAIR	112-3864



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Cleanroom gloves, KIMTECH PURE* G3 Latex
Kimberly-Clark



Latex, non sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3, M1.5 cleanrooms.

Ambidextrous gloves with tapered, beaded cuffs for easy donning and better seal on garment.

- Washed repeatedly in ultrapure deionised water to ensure consistent control of particles and extractables
- Exceptional wet/dry grip without compromising tactile sensitivity

EN 374, Cat. III; AQL 1.5

Packaging: Double bagged with polyethylene materials to ensure cleanliness.

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	1/ISO 3
Cuff style	Beaded
Cuff thickness	0,15 mm
Finger thickness	0,22 mm
Palm thickness	0,20 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	S	10 bags, 100 each	1.000	112-2581
Natural	300	M	10 bags, 100 each	1.000	112-2582
Natural	300	L	10 bags, 100 each	1.000	112-2583
Natural	300	XL	10 bags, 100 each	1.000	112-0533



Cleanroom gloves, KIMTECH PURE* G5 Latex
Kimberly-Clark



Latex, non sterile, powder-free, textured fingertips

Suitable for use in Class 100, ISO 5, M3.5 or higher cleanrooms.

Ambidextrous gloves with beaded cuffs for easy donning and better seal on garment. Ideal for handling delicate equipment in ISO Class 5 or higher cleanrooms within microelectronics, semiconductor, optics and pharmaceutical industries.

- Fifty micrograms per gram (50 µg/g) or less of total water extractable protein
- Manufactured from natural rubber latex for tactile sensitivity and comfort
- Textured palm and fingers for better grip
- Silicone-free material
- Virus resistance according to ISO 16604

EN 374; Cat. III; AQL 1.5

Packaging: 100 gloves, double bagged in sealed cleanroom polyethylene bags.

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded
Cuff thickness	0,12 mm
Finger thickness	0,21 mm
Palm thickness	0,18 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	S	10 bags, 100 each	1.000	112-3487
Natural	300	M	10 bags, 100 each	1.000	112-3488
Natural	300	L	10 bags, 100 each	1.000	112-3489
Natural	300	XL	10 bags, 100 each	1.000	112-3490



Cleanroom gloves, BioClean Legacy™
Nitritex



Latex, non sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These ambidextrous cleanroom gloves with beaded cuffs can be used in medical as well as in laboratory environments.

- Protein level less than 50 µg/g
- Textured finish for improved grip
- Latex provides exceptional flexibility and comfort
- Beaded cuff provides easier donning and stability on the arm
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4				
Cuff style	Beaded				

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	XS	10 bags, 100 each	1.000	112-3303
Natural	300	S	10 bags, 100 each	1.000	112-3304
Natural	300	M	10 bags, 100 each	1.000	112-3305
Natural	300	L	10 bags, 100 each	1.000	112-3306
Natural	300	XL	10 bags, 100 each	1.000	112-3307
Natural	300	XXL	10 bags, 100 each	1.000	112-3308



Cleanroom gloves, BioClean Legion™
Nitritex



Latex, non sterile, powder-free, textured finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

These ambidextrous cleanroom gloves with beaded cuffs can be used in medical as well as in laboratory environments.

- Extended length for elbow protection
- Latex provides excellent flexibility and comfort
- Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
- Protein level less than 50 µg/g
- Each size carries a unique barcode on the outer bag of 50 pairs (EAN-13) and the outer carton (ITF-14), which allows automatic data entry into stock control systems

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner polybag; one inner polybag per sealed outer polybag; 10 outer polybags per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous				
Disposable/Reusable	Disposable				
Cleanroom Class	100/ISO 5				
Cuff style	Beaded				

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	400	XS	10 bags; 100 each	1.000	112-3840
Natural	400	S	10 bags; 100 each	1.000	112-3074
Natural	400	M	10 bags; 100 each	1.000	112-3075
Natural	400	L	10 bags; 100 each	1.000	112-3076
Natural	400	XL	10 bags; 100 each	1.000	112-3077



Cleanroom gloves, AccuTech® Sterile Coated
Ansell



Latex, sterile, powder-free, bisque finish
Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.
These silicone coated latex gloves meet requirements within the pharmaceutical, biotechnology and medical device industries.
• Inner silicone coating facilitates easy donning and double gloving
• Thinner fingertips and bisque finish provide greater sensitivity, increased handling precision and dexterity
• Low allergenic content minimises the risk of latex-associated allergies for the wearer
EN 374, Cat. III; AQL 1,0
Packaging: One pair per poly wallet, sealed in a poly envelope; 10 pairs per sealed polybag; 5 sealed polybags per master polybag; 4 master polybags per lined carton; 200 pairs per carton.

Table with 2 columns: Ambidextrous/Hand-specific, Disposable/Reusable, Cleanroom Class, Cuff style, Cuff thickness, Finger thickness, Palm thickness and Hand-specific, Disposable, 100/ISO 5, Straight, 0,23 mm, 0,20 mm, 0,18 mm.

Table with 6 columns: Colour, Length (mm), Size, Packed, Pk, Cat. No. Rows include Natural gloves in sizes 6, 6,5, 7, 7,5, 8, 8,5, and 9.



Clean-process gloves, AccuTech®
Ansell



Latex, sterile or non sterile, powder-free, bisque fingertips
Hand-specific gloves with straight cuffs for all applications requiring a high level of dexterity and grip. Ideal for pharmaceutical, medical device manufacturing and biotech. The sterile version is suitable for use in ISO 6 (Class 1000) cleanroom environments.
• Hand-specific, ergonomically designed for improved dexterity, comfort and long wear
• Straight cuff for better fit over garment
• Protein level below 50 µg/gram
EN 374, Cat. III, ASTM D 5712-95; AQL 1,0
Packaging: Packaged in cleanroom-compatible packaging and a lined shipping carton. One pair per poly wallet, sealed in poly envelope; 10 pairs per master polybag; 5 master polybags per case liner; 4 case liners per carton.

Table with 2 columns: Ambidextrous/Hand-specific, Disposable/Reusable, Cleanroom Class, Cuff style, Cuff thickness, Finger thickness, Palm thickness and Hand-specific, Disposable, 1000/ISO 6, Straight, 0,25 mm, 0,20 mm, 0,18 mm.

Table with 6 columns: Colour, Length (mm), Size, Packed, Pk, Cat. No. Rows include Sterile and Natural gloves in sizes 6, 6,5, 7, 7,5, 8, 8,5, and 9.

Continued from previous page

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Non sterile					
Natural	300	6	Triple bagged	200 PAIR	112-0986
Natural	300	6,5	Triple bagged	200 PAIR	112-0987
Natural	300	7	Triple bagged	200 PAIR	112-0988
Natural	300	7,5	Triple bagged	200 PAIR	112-0989
Natural	300	8	Triple bagged	200 PAIR	112-0990
Natural	300	8,5	Triple bagged	200 PAIR	112-3673
Natural	300	9	Triple bagged	200 PAIR	112-0992



Cleanroom gloves, KIMTECH PURE* Sterile G3
Kimberly-Clark



Latex, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3, M1.5 environments.

These hand-specific gloves with beaded cuffs are specially washed to control particle levels.

- Low protein and low endotoxin levels
- Textured, non-slip surface provides exceptional wet/dry grip without compromising tactile sensitivity
- Tapered, beaded cuff reduces roll down, makes donning easier, enhances cuff strength, and forms a better seal on garments
- Sterilised by gamma radiation

EN 374; Cat. III; AQL 1.5

Packaging: Each pair is double packaged in a wallet within a pouch, 20 pouches per bag, 10 bags per case (200 pair).

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	1/ISO 3
Cuff style	Beaded
Cuff thickness	0,16 mm
Finger thickness	0,22 mm
Palm thickness	0,20 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	Double bagged	200 PAIR	112-4825
Natural	300	6,5	Double bagged	200 PAIR	112-4826
Natural	300	7	Double bagged	200 PAIR	112-0491
Natural	300	7,5	Double bagged	200 PAIR	112-4827
Natural	300	8	Double bagged	200 PAIR	112-4828
Natural	300	8,5	Double bagged	200 PAIR	112-4829
Natural	300	9	Double bagged	200 PAIR	112-4830
Natural	300	10	Double bagged	200 PAIR	112-2584



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Cleanroom gloves, KIMTECH PURE* Sterile G5 Latex
Kimberly-Clark



- Latex, sterile, powder-free, textured finish**
- Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.
- Hand-specific gloves made of specially formulated natural rubber latex for superior strength and durability. Non pyrogenic, non hemolytic. With tapered and beaded cuffs for easy donning and removal.
- Low protein and low endotoxin levels
 - Textured for good wet/dry grip without compromising tactility
 - Sterilised by gamma irradiation

EN 374, Cat. III; AQL 1.5

Packaging: Each pair is double packaged in a wallet within a pouch, 20 pouches per bag, 10 bags per case (200 pairs).

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded
Cuff thickness	0,16 mm
Finger thickness	0,22 mm
Palm thickness	0,20 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	Double bagged	200 PAIR	112-2597
Natural	300	6,5	Double bagged	200 PAIR	112-2598
Natural	300	7	Double bagged	200 PAIR	112-2599
Natural	300	7,5	Double bagged	200 PAIR	112-2600
Natural	300	8	Double bagged	200 PAIR	112-2601
Natural	300	8,5	Double bagged	200 PAIR	112-2602
Natural	300	9	Double bagged	200 PAIR	112-2603
Natural	300	10	Double bagged	200 PAIR	112-2596



Cleanroom gloves, BioClean Extra™
Nitritex



- Latex, sterile, powder-free, textured finish**
- Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.
- Ambidextrous cleanroom gloves with beaded cuffs. Suitable for double-donning.
- Extended length provides protection up to the elbow
 - Protein level less than 50 µg/g
 - Extended leaching in pure deionised water ensures extremely low levels of chlorides and extractable metals
 - Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet; one inner wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton (200 pairs).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4
Cuff style	Beaded
Cuff thickness	0,10 mm
Finger thickness	0,16 mm
Palm thickness	0,13 mm

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	400	S	Double bagged	200 PAIR	112-3080
Natural	400	M	Double bagged	200 PAIR	112-3079
Natural	400	L	Double bagged	200 PAIR	112-3078
Natural	400	XL	Double bagged	200 PAIR	112-3081



Cleanroom gloves, BioClean Advance™
Nitritex



Latex, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These hand-specific latex gloves are anatomically shaped and therefore comfortable to wear. They can be used in medical areas as well as in laboratories.

- Latex provides exceptional flexibility and comfort
- Protein level: less than 50 µg/g
- Double-donnable
- Textured surface for good grip
- Anatomically shaped for enhanced wearer comfort

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs).

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	20 bags, 10 pairs each	200 PAIR	112-3492
Natural	300	6,5	20 bags, 10 pairs each	200 PAIR	112-3493
Natural	300	7	20 bags, 10 pairs each	200 PAIR	112-3494
Natural	300	7,5	20 bags, 10 pairs each	200 PAIR	112-3495
Natural	300	8	20 bags, 10 pairs each	200 PAIR	112-3496
Natural	300	8,5	20 bags, 10 pairs each	200 PAIR	112-3497
Natural	300	9	20 bags, 10 pairs each	200 PAIR	112-3498
Natural	300	10	20 bags, 10 pairs each	200 PAIR	112-3491



Cleanroom gloves, BioClean Maxima™
Nitritex



Latex, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4, M2.5 and EU GMP Grade A cleanrooms.

These ambidextrous cleanroom gloves with beaded cuffs can be used in medical as well as in laboratory environments. Suitable for double-donning.

- Protein level less than 50 µg/g
- Latex provides exceptional flexibility and comfort
- Anatomically shaped for enhanced wearer comfort
- Extended length provides full arm protection
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 10 outer bags per carton liner; one carton liner per carton (100 pairs).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4; EU GMP (A)
Cuff style	Beaded

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	600	6	10 bags, 10 pairs each	100 PAIR	112-3841
Natural	600	6,5	10 bags, 10 pairs each	100 PAIR	112-3842
Natural	600	7,5	10 bags, 10 pairs each	100 PAIR	112-3844
Natural	600	7	10 bags, 10 pairs each	100 PAIR	112-3843
Natural	600	8	10 bags, 10 pairs each	100 PAIR	112-3845
Natural	600	8,5	10 bags, 10 pairs each	100 PAIR	112-3846
Natural	600	9	10 bags, 10 pairs each	100 PAIR	112-3847



Cleanroom gloves, BioClean Alpha™
Nitritex



Latex, sterile, powder-free, textured surface

Suitable for use in Class 10, ISO 4 or EU GMP Grade A cleanrooms.

These latex gloves with beaded cuffs are hand-specific and anatomically shaped.

- Extra thick cuff to reduce the incidence of tearing when donning
- Protein level less than 50 µg/g
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet; one inner wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton (200 pairs).

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4
Cuff style	Beaded
Cuff thickness	0,18 mm
Finger thickness	0,23 mm
Palm thickness	0,21 mm

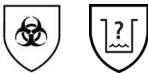
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	10 bags, 20 pairs each	200 PAIR	112-3055
Natural	300	6,5	10 bags, 20 pairs each	200 PAIR	112-3056
Natural	300	7	10 bags, 20 pairs each	200 PAIR	112-3057
Natural	300	7,5	10 bags, 20 pairs each	200 PAIR	112-3058
Natural	300	8	10 bags, 20 pairs each	200 PAIR	112-3059
Natural	300	8,5	10 bags, 20 pairs each	200 PAIR	112-3060
Natural	300	9	10 bags, 20 pairs each	200 PAIR	112-3061



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Cleanroom gloves, BioClean Vista™
Nitritex



Vinyl, non sterile, powder-free, smooth finish

Suitable for use in Class 10, ISO 4, M2.5 cleanrooms.

These latex-free cleanroom gloves can be used in medical as well as in laboratory environments. They also have excellent ESD properties.

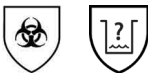
- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff provides easier donning and stability on the arm
- Smooth surface for excellent sensitivity

EN 455, EN 374; Cat. I; AQL 1,5

Packaging: 100 pieces per sealed PE bag; one sealed PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	10/ISO 4
Cuff style	Beaded

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Transparent	300	S	10 bags, 100 each	1.000	112-3892
Transparent	300	M	10 bags, 100 each	1.000	112-3891
Transparent	300	L	10 bags, 100 each	1.000	112-3890
Transparent	300	XL	10 bags, 100 each	1.000	112-3893



Cleanroom gloves, BioClean Vector™
Nitritex



Vinyl, non sterile, powder-free, smooth finish

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

These latex-free cleanroom gloves can be used in medical as well as in laboratory environments. They also have excellent ESD properties.

- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff provides easier donning and stability on the arm
- Smooth surface for excellent sensitivity

EN 455, EN 374; Cat. I; AQL 1,5

Packaging: 100 pieces per sealed PE bag; one sealed PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Transparent	300	S	10 bags, 100 each	1.000	112-3888
Transparent	300	M	10 bags, 100 each	1.000	112-3887
Transparent	300	L	10 bags, 100 each	1.000	112-3886
Transparent	300	XL	10 bags, 100 each	1.000	112-3889



Gloves, TouchNTuff® 73-300/73-500
Ansell



Neoprene/polychloroprene, sterile or non sterile, powder-free, smooth finish

Made from 100% polychloroprene, these gloves offer splash resistance against a broad range of chemicals. With no natural rubber latex or accelerators used in manufacturing, the risk of Type I and IV skin allergies is reduced. Ideal for use in controlled environments, in medical and research laboratories, in the electronics and pharma industry as well as in biotechnology.

- New formulation provides increased sensitivity due to the polymer thickness
- Produced on ergonomically designed hand-specific formers to enhance fit and comfort, and to reduce hand fatigue and stress
- SureFit Technology™ eliminates “cuff roll down”
- Synthetic polyurethane inner coating enables ease of dry and wet hand donning
- Design and polymer thickness facilitate ease and comfort of double gloving

EN 374, EN 421; Cat. III; AQL 1,0

Packaging information:

Non sterile gloves: 20 right and left hand gloves packed in separate compartments in a polybag; 2 polybags per master polybag, 5 master polybags per case liner; 200 pairs per carton.
Sterile gloves: One pair per poly wallet, sealed in a poly envelope; 10 pairs per outer polybag; 5 sealed outer polybags per master polybag; sealed master polybags per lined carton; 200 pairs per carton.

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Disposable
Powdered/Powder-free	Powder-free
Cuff style	Beaded
EN norm	EN 374, EN 421

Model	Colour	Length (mm)	Thickness (mm)	Size	Packed	Pk	Cat. No.
73-300, non sterile	Cream	305	0,13	5,5	20 pairs/bag	200 PAIR	112-3195
73-300, non sterile	Cream	305	0,13	6	20 pairs/bag	200 PAIR	112-3196
73-300, non sterile	Cream	305	0,13	6,5	20 pairs/bag	200 PAIR	112-3197
73-300, non sterile	Cream	305	0,13	7	20 pairs/bag	200 PAIR	112-3198
73-300, non sterile	Cream	305	0,13	7,5	20 pairs/bag	200 PAIR	112-3199
73-300, non sterile	Cream	305	0,13	8	20 pairs/bag	200 PAIR	112-3292
73-300, non sterile	Cream	305	0,13	8,5	20 pairs/bag	200 PAIR	112-3293
73-300, non sterile	Cream	305	0,13	9	20 pairs/bag	200 PAIR	112-3294
73-500, sterile	Cream	305	0,13	5,5	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3295
73-500, sterile	Cream	305	0,13	6	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3296
73-500, sterile	Cream	305	0,13	6,5	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3297
73-500, sterile	Cream	305	0,13	7	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3298
73-500, sterile	Cream	305	0,13	7,5	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3299
73-500, sterile	Cream	305	0,13	8	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3300
73-500, sterile	Cream	305	0,13	8,5	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3301
73-500, sterile	Cream	305	0,13	9	1 pair/poly wallet; 10 pairs/bag	200 PAIR	112-3302



Cleanroom gloves, TouchNTuff® 83-300/83-500
Ansell



Polyisoprene, sterile or non sterile, powder-free, anti-slip finish

These single-use thin polymer gloves provide superior tactility and flexible protection for both workers and products in diverse wet and dry environments, requiring contamination control. Ideal for people working with potentially hazardous chemicals as the gloves are chemical splash resistant. Also suitable for use in ISO Class 5 or higher cleanroom environments.

- Hand-specific and comfortable to wear for a longer period of time
- Do not contain natural rubber latex: safe for latex-sensitive (Type I) laboratory professionals
- SureFit Technology™: Gloves securely fit to the forearm and cuffs are prevented from rolling down
- Inner coating technology enables ease of dry and wet hand donning
- Anti-slip finish helps prevent slippage

EN 421, EN 374, Cat. III; AQL 1.0

Packaging:

Non sterile version (83-300): 20 right and left hand gloves packed in separate compartments in a polybag; 1 polybag per vacuum sealed polybag; 2 polybags per vacuum sealed master polybag, 5 master polybags per case liner; 200 pairs per carton.

Sterile version (83-500): One pair per poly wallet, sealed in a poly envelope; 10 pairs per sealed polybag; 5 sealed polybags per master bag; 4 master bags per case liner; 200 pairs per carton. All packaging is printed with cleanroom-compatible IPA resistant ink. The polybags have an easy-tear opening. The gloves are triple bagged for superior contamination control.

Continued from previous page

Ambidextrous/Hand-specific	Disposable/Reusable	Cleanroom Class	Cuff style
Hand-specific	Disposable	100/ISO 5	Beaded

Model	Colour	Length (mm)	Thickness (mm)	Size	Packed	Pk	Cat. No.
Non sterile (83-300)	White	305 - 310	0,21	5,5	10 bags, 20 pairs each	200 PAIR	112-3175
Non sterile (83-300)	White	305 - 310	0,21	6	10 bags, 20 pairs each	200 PAIR	112-3176
Non sterile (83-300)	White	305 - 310	0,21	6,5	10 bags, 20 pairs each	200 PAIR	112-3177
Non sterile (83-300)	White	305 - 310	0,21	7	10 bags, 20 pairs each	200 PAIR	112-3178
Non sterile (83-300)	White	305 - 310	0,21	7,5	10 bags, 20 pairs each	200 PAIR	112-3179
Non sterile (83-300)	White	305 - 310	0,21	8	10 bags, 20 pairs each	200 PAIR	112-3180
Non sterile (83-300)	White	305 - 310	0,21	8,5	10 bags, 20 pairs each	200 PAIR	112-3181
Non sterile (83-300)	White	305 - 310	0,21	9	10 bags, 20 pairs each	200 PAIR	112-3182
Sterile (83-500)	White	305 - 310	0,21	5,5	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2782
Sterile (83-500)	White	305 - 310	0,21	6	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2783
Sterile (83-500)	White	305 - 310	0,21	6,5	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2784
Sterile (83-500)	White	305 - 310	0,21	7	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2785
Sterile (83-500)	White	305 - 310	0,21	7,5	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2786
Sterile (83-500)	White	305 - 310	0,21	8	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2787
Sterile (83-500)	White	305 - 310	0,21	8,5	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2788
Sterile (83-500)	White	305 - 310	0,21	9	1 pair/wallet, 10 pairs/bag	200 PAIR	112-2789



Cleanroom gloves, BioClean Ultimate™
Nitritex



Polychloroprene, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 and EU GMP Grade A cleanrooms.

BioClean Ultimate™ sterile synthetic cleanroom gloves are manufactured from a proprietary co-polymer blend. They are hand-specific and have a beaded cuff.

- With no latex proteins, Type 1 latex allergic reactions are eliminated
- Anatomical hand-specific shape for high tactility, protection and comfort
- Fit and feel of natural latex gloves
- Textured surface provides a good grip

EN 374, EN 455, Cat III, AQL: 1.5

Packaging: One cuffed pair per inner plastic wallet; One inner wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs).

Ambidextrous/Hand-specific	Hand-specific					
Disposable/Reusable	Disposable					
Cleanroom Class	10/ISO 4; EU GMP (A)					
Cuff style	Beaded					

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	20 bags, 10 pairs	200 PAIR	112-1660
Natural	300	6,5	20 bags, 10 pairs	200 PAIR	112-1661
Natural	300	7	20 bags, 10 pairs	200 PAIR	112-1662
Natural	300	7,5	20 bags, 10 pairs	200 PAIR	112-1663
Natural	300	8	20 bags, 10 pairs	200 PAIR	112-1664
Natural	300	8,5	20 bags, 10 pairs	200 PAIR	112-1665
Natural	300	9	20 bags, 10 pairs	200 PAIR	112-1666



Cleanroom gloves, BioClean P-Zero™
Nitritex



Polychloroprene, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 and EU GMP Grade A cleanrooms.

These hand-specific gloves with beaded cuffs are resistant against chemicals and cytotoxic drugs. They are therefore suitable for chemotherapy applications (ASTM D 6978-05 tested).

- Latex-free to eliminate Type I latex allergies
- Beaded cuff provides easier donning and stability on the arm
- Polychloroprene provides exceptional tactility
- Textured for improved grip
- Excellent anti-static properties

EN 374, EN 455; Cat. III, AQL 1,5

Packaging: One cuffed pair per plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs).

Ambidextrous/Hand-specific	Hand-specific				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4; EU GMP (A)				
Cuff style	Beaded				
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	300	6	20 bags, 10 pairs each	200 PAIR	112-3873
Natural	300	6,5	20 bags, 10 pairs each	200 PAIR	112-3874
Natural	300	7	20 bags, 10 pairs each	200 PAIR	112-3875
Natural	300	7,5	20 bags, 10 pairs each	200 PAIR	112-3876
Natural	300	8	20 bags, 10 pairs each	200 PAIR	112-3877
Natural	300	8,5	20 bags, 10 pairs each	200 PAIR	112-3878
Natural	300	9	20 bags, 10 pairs each	200 PAIR	112-3879



Cleanroom gloves, BioClean Fusion™
Nitritex



Polychloroprene, sterile or non sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These ambidextrous gloves with beaded cuffs provide excellent grip. The non sterile version is suitable for chemotherapy applications (ASTM D 6978-05 tested).

- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff provides easier donning and stability on the arm
- Polychloroprene provides exceptional tactility
- Suitable for double-donning
- Excellent ESD properties

EN 374-1/2/3, EN 455; Cat. III, AQL 1,5

Packaging:

Sterile version: One cuffed pair per plastic wallet; one wallet per EasyTear™ PE pouch; 10 pairs per sealed outer PE bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs).

Non sterile version: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Model	Non sterile		Sterile		
Ambidextrous/Hand-specific			Ambidextrous		
Disposable/Reusable			Disposable		
Cleanroom Class	10/ISO 4		10/ISO 4; EU GMP (A)		
Cuff style			Beaded		
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Non sterile					
Green	300	XS	10 bags, 100 each	1.000	112-3837
Green	300	S	10 bags, 100 each	1.000	112-3835
Green	300	M	10 bags, 100 each	1.000	112-3834
Green	300	L	10 bags, 100 each	1.000	112-3499
Green	300	XL	10 bags, 100 each	1.000	112-3836
Green	300	XXL	10 bags, 100 each	1.000	112-3838

Continued from previous page

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Sterile					
Green	300	5 - 5,5	20 bags, 10 pairs each	200 PAIR	112-3895
Green	300	6 - 6,5	20 bags, 10 pairs each	200 PAIR	112-3896
Green	300	7 - 7,5	20 bags, 10 pairs each	200 PAIR	112-3897
Green	300	8 - 8,5	20 bags, 10 pairs each	200 PAIR	112-3898
Green	300	9	20 bags, 10 pairs each	200 PAIR	112-3899
Green	300	10	20 bags, 10 pairs each	200 PAIR	112-3894



Cleanroom gloves, BioClean Neo™
Nitritex



Polychloroprene, non sterile, powder-free, textured finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

These ambidextrous gloves with beaded cuffs provide excellent puncture resistance and protection against chemicals.

- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff provides easier donning and stability on the arm
- Polychloroprene provides exceptional tactility
- Textured for enhanced grip
- Excellent ESD properties

EN 374-1/2/3, EN 455; Cat. III, AQL 1,5

Packaging: 100 pieces per sealed inner polybag; one inner polybag per sealed outer polybag; 10 outer polybags per carton (1000 pieces).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Disposable
Cleanroom Class	100/ISO 5
Cuff style	Beaded

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Green	300	XS	10 bags, 100 each	1.000	112-3857
Green	300	S	10 bags, 100 each	1.000	112-3855
Green	300	M	10 bags, 100 each	1.000	112-3854
Green	300	L	10 bags, 100 each	1.000	112-3853
Green	300	XL	10 bags, 100 each	1.000	112-3856
Green	300	XXL	10 bags, 100 each	1.000	112-3858



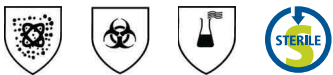
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Cleanroom gloves, BioClean Suprene™
Nitritex



Neoprene, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 and EU GMP Grade A cleanrooms.

These anatomically shaped gloves are processed to ensure ISO Class 4 and EU GMP Grade A compatibility. Thanks to their excellent strength and stretch these gloves are the ideal choice for use within isolators.

- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff and textured surface for increased tactility
- Double-donnable with good grip
- Neoprene gives strength and durability
- Excellent ESD properties

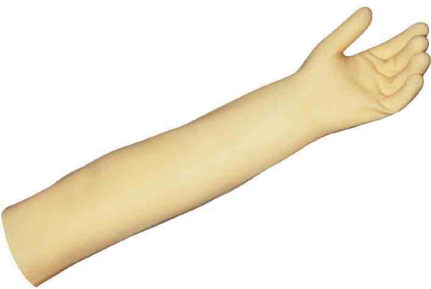
EN 374 (AKL), EN 455, EN 421, ASTM D 6978-05 tested; Cat. III, AQL 1,5

Packaging information: One cuffed pair is sealed in an inner plastic wallet which is then sealed in an EasyTear™ PE pouch. Ten pouches are sealed in an outer PE bag and the carton liner contains 20 outer bags.

Ambidextrous/Hand-specific	Hand-specific				
Disposable/Reusable	Disposable				
Cleanroom Class	10/ISO 4; EU GMP (A)				
Cuff style	Beaded				
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Light Green	300	6	20 bags, 10 pairs each	200 PAIR	112-3337
Light Green	300	6,5	20 bags, 10 pairs each	200 PAIR	112-3338
Light Green	300	7	20 bags, 10 pairs each	200 PAIR	112-3339
Light Green	300	7,5	20 bags, 10 pairs each	200 PAIR	112-3340
Light Green	300	8	20 bags, 10 pairs each	200 PAIR	112-3341
Light Green	300	8,5	20 bags, 10 pairs each	200 PAIR	112-3342
Light Green	300	9	20 bags, 10 pairs each	200 PAIR	112-3343



Cleanroom gloves, Trionic® 522
Mapa Professionnel



Latex/nitrile/neoprene, non sterile, powder-free, textured finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

Anatomically designed liquid-proof gloves are made of natural latex blended with neoprene and nitrile. They feature a chlorinated internal surface and an anti-slip finish on palm and finger. The material does not contain any powder, silicone or paraffin.

- Unique triple polymer blend: superior protection against chemicals commonly used in controlled environments
- Reduced levels of particles and reactive ions thanks to specific formulation and rinsing in deionised water
- Regularly tested for particle levels and extractables
- Safe wet grip thanks to non-slip finish

EN 374, EN 388 (1110); AQL 1.5; Cat. III

Ambidextrous/Hand-specific	Hand-specific					
Disposable/Reusable	Disposable					
Cleanroom Class	100/ISO 5					
Cuff style	Straight					
Colour	Length (mm)	Thickness (mm)	Size	Packed	Pk	Cat. No.
Natural	610	0,5	8	1 pair/bag	1 PAIR	112-0723
Natural	610	0,5	9	1 pair/bag	1 PAIR	112-0724
Natural	610	0,5	10	1 pair/bag	1 PAIR	112-0722



Knitted gloves, Stringknits™ 76-100
Ansell



Ambidextrous, light and stretchy gloves made from cotton.

- Can be worn on their own or as liners
- No seams to chafe or split
- Stringknit construction allows good airflow to the hand
- Washable at 40 °C; will not shrink, stiffen or lose their shape

EN 388 (002X), Cat. II

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Reusable
Liner Material	Cotton
Cuff style	Knit wrist
Gauge	10
EN norm	EN 388 (002X)

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Natural	215	7	12 pairs/bag	12 PAIR	112-3598
Natural	215	9	12 pairs/bag	12 PAIR	112-3702



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Glove liners, Puri Top Fit



These knitted nylon gloves feature a thin PU coating on the fingertips. The gloves are ideal for handling small components, dry assembly applications, maintenance, pharmaceutical processing and other light duty applications. Suitable for use in ISO Class 7 and 8 cleanrooms.

- Breathable fabric
- Optimum comfort and dexterity
- Hand-specific for good fit
- Washable at 40 °C

Ambidextrous/Hand-specific	Hand-specific				
Disposable/Reusable	Reusable				
Cleanroom Class	ISO 7				
Cuff style	Knit wrist				
Colour	Length (mm)	Size	Packed	Pk	Cat. No.
10 pairs/pack					
White	254	XS	10 pairs/pack	10 PAIR	112-3429
White	254	S	10 pairs/pack	10 PAIR	112-3427
White	254	M	10 pairs/pack	10 PAIR	112-3426
White	254	L	10 pairs/pack	10 PAIR	112-3425
White	254	XL	10 pairs/pack	10 PAIR	112-3428
White	254	XXL	10 pairs/pack	10 PAIR	112-3430
Individually packed					
White	254	S	Individually packed	10 PAIR	112-4190
White	254	M	Individually packed	10 PAIR	112-4189
White	254	L	Individually packed	10 PAIR	112-4188
White	254	XL	Individually packed	10 PAIR	112-4191

Glove liners, Puri Palm Fit



These glove liners made of 100% soft nylon fabric with PU coating on the palm are ideal for handling small components. They can be used for light dry assembly, maintenance or micro mechanical tasks and for pharmaceutical processing.

- Seamless liner
- Hand-specific for great fit
- Excellent dexterity and high absorbency

Thickness of coating: 0,1 mm

Ambidextrous/Hand-specific	Hand-specific			
Disposable/Reusable	Reusable			
Cleanroom Class	ISO 7			
Cuff style	Knit wrist			
Colour	Size	Packed	Pk	Cat. No.
White	XS	10 pairs/pack	10 PAIR	112-4186
White	S	10 pairs/pack	10 PAIR	112-4184
White	M	10 pairs/pack	10 PAIR	112-4183
White	L	10 pairs/pack	10 PAIR	112-4182
White	XL	10 pairs/pack	10 PAIR	112-4185
White	XXL	10 pairs/pack	10 PAIR	112-4187

Knitted gloves, B0600 Top Fit / B0605 Top Fit Long
Showa



These seamless knitted nylon gloves with elasticated cuffs feature a PU coating on the fingertips. The coating protects the hand from oils and micro cuts. Ideal for light assembly tasks in the automotive and metalworking industry as well as in logistics.

- Lightweight, elastic, low linting
- Anatomical shape, resistant to deformation
- No fingerprints left on handled objects
- Minimal allergy risk, no irritation by seams
- Available in different lengths: Long version provides protection for the wrist

EN 388 (0131); Cat. II

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Reusable
Cuff style	Knit wrist
EN norm	EN 388 (0131)

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	235 - 295	6	10 pairs/pack	10 PAIR	112-4221
White	235 - 295	7	10 pairs/pack	10 PAIR	112-4220
White	235 - 295	8	10 pairs/pack	10 PAIR	112-4219
White	235 - 295	9	10 pairs/pack	10 PAIR	112-4222
White	235 - 295	10	10 pairs/pack	10 PAIR	112-4223



Electrical resistant glove liners, Conductive Fit A0150/A0160/A0170
Showa



These low linting nylon/acrylic knitted gloves have anti-static properties. The conductive Thunderon® fibre covers the important area of the fingers, providing static discharge by corona effect. The gloves are available without coating, with PU coating on fingertips only and with coating on fingertips and palm. Ideal for use when working with electronic products, in manufacturing industries and in automotive related industries.

- Surface resistivity of 10⁶ to 10⁷ Ω
- Optimal dexterity and tactile feel
- Seamless knit: No skin irritation
- Elasticated cuffs: Great freedom of movement for the wrist
- PU coating protects extremities from oils and micro cuts and prevents fingerprints on handled objects

A0150/A0160: EN 388 (0130); Cat. II

A0170: EN 388 (3121); Cat. II

Model	A0150	A0160	A0170
Ambidextrous/Hand-specific	Hand-specific		
Disposable/Reusable	Reusable		
EN norm	EN 388 (0130)		EN 388 (3121)

Model	Colour	Length (mm)	Size	Packed	Pk	Cat. No.
A0150 Fit: Without PU coating						
A0150	Grey/White	185 - 230	S	10 pairs/bag	10 PAIR	112-4209
A0150	Grey/White	185 - 230	M	10 pairs/bag	10 PAIR	112-4208
A0150	Grey/White	185 - 230	L	10 pairs/bag	10 PAIR	112-4207
A0150	Grey/White	185 - 230	XL	10 pairs/bag	240 PAIR	112-4210
A0160 Top Fit: With PU coating on fingertips						
A0160	Grey/White	185 - 230	S	10 pairs/bag	10 PAIR	112-4213
A0160	Grey/White	185 - 230	M	10 pairs/bag	10 PAIR	112-4212
A0160	Grey/White	185 - 230	L	10 pairs/bag	10 PAIR	112-4211
A0160	Grey/White	185 - 230	XL	10 pairs/bag	10 PAIR	112-4214
A0170 Palm Fit: With PU coating on fingertips and palm						
A0170	Grey/White	185 - 230	S	10 pairs/bag	10 PAIR	112-4217
A0170	Grey/White	185 - 230	M	10 pairs/bag	10 PAIR	112-4216
A0170	Grey/White	185 - 230	L	10 pairs/bag	10 PAIR	112-4215
A0170	Grey/White	185 - 230	XL	10 pairs/bag	10 PAIR	112-4218

Isolator mitten, Alphatec® 55-113
Ansell



- Latex**
- These hand-specific gauntlets are made of natural rubber latex without an inner lining. They provide protection against chemical hazards as well as against abrasions and tears. For use with most available cleanroom glove boxes. Ideal for use in chemical and medical research, biotechnologies, pharmaceutical industries and chemical/biological product handling.
- Highly resistant to most acids, alkalis, alcohols, aldehydes and ketones
 - Mitten shape provides effective protection for major risk environments
 - Medium thickness increases dexterity
 - Beaded cuffs for easier donning
 - Smooth finish
- EN 388 (3010), EN 374; Cat. III; AQL 0,65

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Natural	813	200	0,75	10	1 PAIR	112-3456

Isolator gloves, Alphatec® Latex
Ansell



- Latex**
- These ambidextrous gauntlets are made of natural rubber latex without an inner lining. They provide protection against chemical and mechanical hazards as well as against biohazards. For use with most available cleanroom glove boxes. Ideal for chemical and medical research, electronics, pharmaceuticals, sandblasting, and steam cleaning.
- Highly resistant to most acids, alkalis, alcohols, aldehydes and ketones
 - Good tear resistance
 - Beaded cuffs for easier donning
 - Liquid-tight
- EN 374; Cat. III; AQL 0,65
Thickness 0,51 mm: EN 388 (3010)
Thickness 0,76 mm: EN 388 (3121)

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
For glove port 150 mm						
Natural	711	150	0,51	8	1 PAIR	112-3432
Natural	711	150	0,51	9	1 PAIR	112-3433
Natural	711	150	0,51	10	1 PAIR	112-3431
Natural	711	150	0,76	8	1 PAIR	112-3435
Natural	711	150	0,76	9	1 PAIR	112-3436
Natural	711	150	0,76	10	1 PAIR	112-3434
For glove port 180 mm						
Natural	711	180	0,51	9	1 PAIR	112-3438
Natural	711	180	0,51	10	1 PAIR	112-3437
Natural	711	180	0,76	9	1 PAIR	112-3440
Natural	711	180	0,76	10	1 PAIR	112-3439
For glove port 200 mm						
Natural	813	200	0,51	9	1 PAIR	112-3442
Natural	813	200	0,51	10	1 PAIR	112-3441
Natural	813	200	0,76	9	1 PAIR	112-3444
Natural	813	200	0,76	10	1 PAIR	112-3443
For glove port 230 mm						
Natural	787	230	0,51	9	1 PAIR	112-3446
Natural	787	230	0,51	10	1 PAIR	112-3445
Natural	787	230	0,76	9	1 PAIR	112-3448
Natural	787	230	0,76	10	1 PAIR	112-3447
For glove port 250 mm						
Natural	813	250	0,51	9	1 PAIR	112-3450
Natural	813	250	0,51	10	1 PAIR	112-3449
Natural	813	250	0,76	10	1 PAIR	112-3451
For glove port 300 mm						
Natural	813	300	0,51	9	1 PAIR	112-3453
Natural	813	300	0,51	10	1 PAIR	112-3452
Natural	813	300	0,76	9	1 PAIR	112-3455
Natural	813	300	0,76	10	1 PAIR	112-3454

Isolator gloves, Alphatec® Neoprene
Ansell



Neoprene

These ambidextrous gauntlets are made of neoprene without an inner lining. They provide protection against chemical and mechanical hazards as well as against biohazards. For use with most available cleanroom glove boxes. Ideal for chemical and medical research, electronics, pharmaceuticals, sandblasting, and steam cleaning.

- Highly resistant to most acids, oils, alcohols, lubricants and hydrocarbons
- Beaded cuffs for easier donning
- Good abrasion resistance
- Liquid-tight

EN 374 (ACJKL); Cat. III; AQL 0,65
Thickness 0,33/0,51 mm: EN 388 (2100)
Thickness 0,76 mm: EN 388 (3101)

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
For glove port 150 mm						
Black	711	150	0,51	8	1 PAIR	112-3458
Black	711	150	0,51	10	1 PAIR	112-3459
Black	711	150	0,51	10	1 PAIR	112-3457
For glove port 180 mm						
Black	711	180	0,51	10	1 PAIR	112-3461
Black	711	180	0,51	10	1 PAIR	112-3460
For glove port 200 mm						
Black	813	200	0,51	9	1 PAIR	112-3463
Black	813	200	0,51	10	1 PAIR	112-3462
Black	813	200	0,76	10	1 PAIR	112-3465
Black	813	200	0,76	10	1 PAIR	112-3464
For glove port 230 mm						
Black	813	230	0,51	9	1 PAIR	112-3467
Black	813	230	0,51	10	1 PAIR	112-3466
For glove port 250 mm						
Black	813	250	0,51	9	1 PAIR	112-3469
Black	813	250	0,51	10	1 PAIR	112-3468
Black	813	250	0,76	9	1 PAIR	112-3471
Black	813	250	0,76	10	1 PAIR	112-3470
For glove port 300 mm						
Black	813	300	0,51	9	1 PAIR	112-3473
Black	813	300	0,51	10	1 PAIR	112-3472
Black	813	300	0,76	9	1 PAIR	112-3475
Black	813	300	0,76	10	1 PAIR	112-3474
For oval glove port						
Black	813	200×300	0,33	9	1 PAIR	112-3477
Black	813	200×300	0,33	10	1 PAIR	112-3476

Isolator gloves
Piercan



Neoprene

These gloves, made of non staining polychloroprene, provide good mechanical protection and good resistance against various chemicals. Ideal for use in life science applications (pharmaceutical and medical).

- Good behavior against UV and ozone
- Excellent dexterity and flexibility
- Excellent resistance to sterilisation processes (gamma and beta radiation)

0,3 mm thickness: EN 374-1, EN 421; Cat. III
0,4 mm thickness: EN 388 (X100), EN 374-1, EN 421; Cat. III
0,5 mm thickness: EN 388 (X100), EN 374 (ACK), EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous	Black	330	90	0,3	7	1 PAIR	112-4168
Ambidextrous	Black	330	90	0,3	8	1 PAIR	112-4169
Ambidextrous	Black	330	90	0,4	7	1 PAIR	112-4170
Ambidextrous	Black	330	90	0,4	6	1 PAIR	112-4171
Ambidextrous	Black	330	90	0,4	7	1 PAIR	112-4172
Ambidextrous	Black	330	90	0,4	8	1 PAIR	112-4173
Ambidextrous	Black	330	90	0,5	6	1 PAIR	112-3914
Ambidextrous	Black	330	90	0,5	7	1 PAIR	112-3915
Ambidextrous	Black	330	90	0,5	8	1 PAIR	112-3916

Isolator gloves
Piercan



PU / CSM

These gloves are manufactured from two different layers of material: One layer is made of PU and the other one is made of chlorosulphonated polyethylene (CSM). The gloves provide excellent chemical protection and resistance to sterilisation agents (hydrogen peroxyde) and sterilisation processes (gamma and beta radiation). Ideal for use in life science applications (pharmaceutical / medical).

- Exceptional level of mechanical properties (puncture and tear resistance)
- High resistance to ozone and UV
- High flexibility and dexterity
- Good behaviour against ionising radiations

EN 388 (4122), EN 374 (AKL), EN 374-2003, EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous	White	330	110	0,5	9	1 PAIR	112-4174

Isolator gloves
Piercan



CSM

These gloves made of chlorosulphonated polyethylene provide excellent resistance to chemicals, sterilisation agents (hydrogen peroxyde) and sterilisation processes (gamma and beta radiation). Ideal for life science applications (pharmaceutical / medical).

- High resistance to ozone and UV
- Excellent flexibility and dexterity
- Excellent behavior to ionising radiations

EN 388 (4XX1), EN 374 (AKL), EN 374-2003, EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous	White	330	110	0,4	6	1 PAIR	112-4175
Ambidextrous	White	330	110	0,4	7	1 PAIR	112-4176
Ambidextrous	White	330	110	0,4	8	1 PAIR	112-4177

Isolator gloves
Piercan



CSM/PU/CSM

These gloves consist of three layers: Two layers of CSM and one layer of PU in-between. The gloves provide excellent chemical protection and resistance to sterilisation agents (hydrogen peroxyde) and sterilisation processes (gamma and beta radiation). Ideal for use in life science applications (pharmaceutical / medical).

- Good puncture and tear resistance
- High resistance to ozone and UV
- High flexibility and dexterity
- Good behavior to ionising radiations

EN 388 (4111), EN 374 (AKL), EN 374-2003, EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous	White	330	110	0,5	6	1 PAIR	112-3917
Ambidextrous	White	330	110	0,5	7	1 PAIR	112-3918

Gauntlets, dry box, anatomical
Piercan

Natural rubber (latex)

Anatomical gauntlets manufactured from natural rubber that provides good mechanical properties such as tensile strength, perforation and abrasion resistance.

- Good flexibility and low modulus
- Low static charge
- Very high resistance to cold conditions (down to -40 °C)
- Combination of flexibility and mechanical strength offers protection together with high dexterity for the user
- Anatomical, conical design for perfect fit

EN 388 (X100), EN 374-1, EN 421; Cat. III

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Natural	500	156	0,4	8	1 PAIR	112-4126
Natural	700	156	0,4	8	1 PAIR	112-4127

Gauntlets, dry box, ambidextrous
Piercan



Natural rubber (latex)

Ambidextrous gauntlets manufactured from natural rubber that provides good mechanical properties such as tensile strength, perforation and abrasion resistance.

- Good flexibility and low modulus
- Low static charge
- Very high resistance to cold conditions (down to -40 °C)
- Combination of flexibility and mechanical strength offers protection together with high dexterity for the user

0,4 mm thickness: EN 388 (X100), EN 374-1, EN 421; Cat. III

0,6 mm thickness: EN 388 (X111), EN 374-1, EN 421; Cat. III

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ø 136 mm, cylindrical shape						
Natural	750	136	0,6	9	1 PAIR	112-4154
Natural	750	136	0,6	10	1 PAIR	112-3345
Ø 136 mm, telescopic shape						
Natural	500	136	0,6	7	1 PAIR	112-3967
Natural	650	136	0,6	7	1 PAIR	112-3969
Natural	650	136	0,6	8	1 PAIR	112-3970
Natural	650	136	0,6	9	1 PAIR	112-3971
Natural	650	136	0,6	10	1 PAIR	112-3968
Natural	700	136	0,6	10	1 PAIR	112-3972
Natural	750	136	0,6	9	1 PAIR	112-3978
Natural	750	136	0,4	8	1 Pair	112-3977
Natural	750	136	0,4	10	1 Pair	112-3976
Ø 156 mm, conical shape						
Natural	550	156	0,6	7	1 PAIR	112-3919
Natural	650	156	0,6	6	1 PAIR	112-3920
Natural	700	156	0,6	7	1 PAIR	112-5300
Natural	700	156	0,6	8	1 PAIR	112-5301
Natural	700	156	0,6	9	1 PAIR	112-5302
Natural	750	156	0,6	5	1 PAIR	112-3932
Natural	750	156	0,6	6	1 PAIR	112-3933
Natural	750	156	0,6	7	1 PAIR	112-5307
Natural	750	156	0,6	8	1 PAIR	112-5308
Natural	750	156	0,6	9	1 PAIR	112-5309
Natural	750	156	0,6	10	1 PAIR	112-5306
Natural	750	156	0,8	10	1 PAIR	112-3931
Natural	800	156	0,4	9	1 PAIR	112-3938
Ø 186 mm, conical shape						
Natural	800	186	0,6	7	1 PAIR	112-5319
Natural	800	186	0,6	8	1 PAIR	112-5320
Natural	800	186	0,6	9	1 PAIR	112-5321
Natural	800	186	0,6	10	1 PAIR	112-0543
Ø 220 mm, conical shape						
Natural	700	220	0,6	6	1 PAIR	112-5312
Natural	700	220	0,6	7	1 PAIR	112-5313
Natural	700	220	0,6	8	1 PAIR	112-5314
Natural	700	220	0,6	9	1 PAIR	112-5315
Natural	750	220	0,4	7	1 PAIR	112-3947
Natural	750	220	0,4	8	1 PAIR	112-3948
Natural	750	220	0,4	9	1 PAIR	112-3949
Ø 300 mm, conical shape						
Natural	800	300	0,6	9	1 PAIR	112-4164

Gauntlets, dry box
Piercan



Neoprene, anti-static

These conductive gloves are manufactured with polychloroprene rubber with an anti-static filler. They are electrostatic dissipative, and therefore do not attract powder and dust. Ideal for explosion-proof environment industries.

- Good chemical resistance
- Resistance to ozone and UV
- Excellent dexterity and flexibility
- Good mechanical protection

EN 388 (X111), EN 374 (ACK), EN 421; Cat. III

Continued from previous page

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Hand-specific, conical	Black	700	220	0,6	9	1 PAIR	112-4142
Ambidextrous, conical	Black	750	156	0,6	9	1 PAIR	112-3930
Ambidextrous, conical	Black	750	220	0,6	9	1 PAIR	112-3946
Hand-specific, conical	Black	800	186	0,6	8	1 PAIR	112-4138
Ambidextrous, conical	Black	800	220	0,6	8	1 PAIR	112-3992
Ambidextrous, conical	Black	800	220	0,6	9	1 PAIR	112-4116
Ambidextrous, conical	Black	800	220	0,6	10	1 PAIR	112-3991

Gauntlets, dry box
Piercan



Neoprene

Ambidextrous gauntlets manufactured from soft black polychloroprene rubber that is self-extinguishing thus providing a good flame resistance for the gauntlet. It is the ideal elastomer providing the best compromise to the conjugate action of several potentially harmful agents, for example oil and ozone. Available for use with various diameter ports.

- High tensile strength and flexibility
- Good resistance to the effects of ozone ageing, oxygen and weathering

0,4 mm thickness: EN 388 (X100), EN 374-1, EN 421; Cat. III
0,6 mm thickness: EN 388 (X100), EN 374-1 (ACK), EN 421; Cat. III
0,8 mm thickness: EN 388 (X111), EN 374-1 (ACK), EN 421; Cat. III

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ø 136 mm, cylindrical shape						
Black	750	136	0,4	8	1 PAIR	112-4153
Ø 136 mm, telescopic shape						
Black	750	136	0,6	7	1 PAIR	112-3973
Black	750	136	0,6	8	1 PAIR	112-3974
Black	750	136	0,6	9	1 PAIR	112-3975
Ø 156 mm, conical shape						
Black	700	156	0,6	8	1 PAIR	112-3922
Black	750	156	0,6	5	1 PAIR	112-3926
Black	750	156	0,4	6	1 PAIR	112-3927
Black	750	156	0,6	6	1 PAIR	112-3928
Black	750	156	0,6	7	1 PAIR	112-5303
Black	750	156	0,6	8	1 PAIR	112-5304
Black	750	156	0,4	9	1 PAIR	112-3929
Black	750	156	0,6	9	1 PAIR	112-5305
Black	750	156	0,4	10	1 PAIR	112-3924
Black	750	156	0,6	10	1 PAIR	112-3925
Ø 186 mm, conical shape						
Black	800	186	0,6	6	1 PAIR	112-3963
Black	800	186	0,6	7	1 PAIR	112-5316
Black	800	186	0,4	9	1 PAIR	112-3964
Black	800	186	0,6	9	1 PAIR	112-0542
Black	800	186	0,6	10	1 PAIR	112-0540
Black	800	186	0,8	10	1 PAIR	112-3962
Ø 220 mm, conical shape						
Black	700	220	0,4	8	1 PAIR	112-3939
Black	700	220	0,6	8	1 PAIR	112-3940
Black	750	220	0,6	6	1 PAIR	112-3941
Black	750	220	0,6	7	1 PAIR	112-3942
Black	750	220	0,6	8	1 PAIR	112-3943
Black	750	220	0,4	9	1 PAIR	112-3944
Black	750	220	0,6	9	1 PAIR	112-3945
Black	800	220	0,4	6	1 PAIR	112-3950
Black	800	220	0,6	6	1 PAIR	112-3951
Black	800	220	0,4	7	1 PAIR	112-3952
Black	800	220	0,4	8	1 PAIR	112-3953
Black	800	220	0,8	8	1 PAIR	112-3954
Black	800	220	0,4	9	1 PAIR	112-3955
Black	800	220	0,8	9	1 PAIR	112-3956
Ø 220 mm, heavy-weight						
Black	800	220	0,4	8	1 PAIR	112-3985
Black	800	220	0,6	8	1 PAIR	112-3986
Black	800	220	0,8	8	1 PAIR	112-3987
Black	800	220	0,4	9	1 PAIR	112-3988
Black	800	220	0,6	9	1 PAIR	112-3989
Black	800	220	0,8	9	1 PAIR	112-3990
Black	800	220	0,4	10	1 PAIR	112-3982
Black	800	220	0,6	10	1 PAIR	112-3983
Black	800	220	0,8	10	1 PAIR	112-3984

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Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ø 300 mm, conical shape						
Black	750	300	0,6	9	1 PAIR	112-4159
Black	800	300	0,4	9	1 PAIR	112-4162
Ø 300 mm, conical shape, washed						
Black	800	300	0,4	9	1 PAIR	112-4163

Gauntlets, dry box, anatomical
Piercan



Neoprene

Anatomical gauntlets manufactured from soft black polychloroprene rubber that is self-extinguishing thus providing a good flame resistance for the gauntlet. It is the ideal elastomer providing the best compromise to the conjugate action of several potentially harmful agents, for example oil and ozone.

- High tensile strength and flexibility
- Good resistance to the effects of ozone ageing, oxygen and weathering
- Good chemical resistance (polyvalent) and mechanical protection
- Anatomical design for perfect fit

0,4 mm thickness: EN 388 (X100), EN 374-1, EN 421; Cat. III

0,6 mm thickness: EN 388 (X100), EN 374-1 (ACK), EN 421; Cat. III

Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Conical						
Black	500	156	0,6	5	1 PAIR	112-4121
Black	500	156	0,6	6	1 PAIR	112-4122
Black	500	156	0,6	7	1 PAIR	112-4123
Black	500	156	0,6	8	1 PAIR	112-4124
Black	500	156	0,6	9	1 PAIR	112-4125
Black	750	156	0,4	7	1 PAIR	112-4130
Black	800	186	0,4	6	1 PAIR	112-4132
Black	800	186	0,4	7	1 PAIR	112-4133
Black	800	186	0,4	8	1 PAIR	112-4134
Black	800	186	0,4	9	1 PAIR	112-4136
Black	800	186	0,6	8	1 PAIR	112-4135
Black	800	186	0,6	9	1 PAIR	112-4137
Telescopic						
Black	750	186	0,6	9	1 PAIR	112-4146
Conical, without wrist (positive pressure box)						
Black	750	136	0,4	7	1 PAIR	112-4141
Telescopic, large wrist						
Black	750	136	0,4	8	1 PAIR	112-4155

Gauntlets, dry box
Piercan



CSM

These gloves made of chlorosulphonated polyethylene provide excellent resistance to chemicals, sterilisation agents (hydrogen peroxide) and sterilisation processes (gamma and beta radiations). Ideal for life science applications (pharmaceutical / medical) and nuclear industries.

- High resistance against ozone and UV
- Excellent flexibility and dexterity
- Excellent resistance against ionising radiations

0,4 mm thickness: EN 388 (4XX1), EN 374 (AKL), EN 374-2003, EN 421; Cat. III

0,6 mm thickness: EN 388 (4X11), EN 374 (AKL), EN 374-2003, EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
For glove port 136 mm							
Ambidextrous, conical	White	750	136	0,4	7,5	1 PAIR	112-4147
Ambidextrous, cylindrical	White	800	136	0,4	7,5	1 PAIR	112-4148
Ambidextrous, cylindrical	White	800	136	0,4	9,5	1 PAIR	112-4149
Hand-specific, telescopic large wrist	White	800	136	0,4	7,5	1 PAIR	112-4150
For glove port 156 mm							
Ambidextrous, conical	White	650	156	0,4	9,5	1 PAIR	112-3921
Ambidextrous, conical	White	750	156	0,4	7,5	1 PAIR	112-5310
Ambidextrous, conical	White	750	156	0,4	9,5	1 PAIR	112-5311
Ambidextrous, conical	White	750	156	0,6	8,5	1 PAIR	112-3935
Ambidextrous, conical	White	750	156	0,6	9,5	1 PAIR	112-3936
For glove port 186 mm							
Ambidextrous, conical	White	750	186	0,4	7,5	1 PAIR	112-5322
Ambidextrous, conical	White	750	186	0,4	9,5	1 PAIR	112-5324
Ambidextrous, conical	White	750	186	0,4	10	1 PAIR	112-4224
Ambidextrous, conical	White	750	186	0,6	8,5	1 PAIR	112-3959

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Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
For glove port 186 mm							
Ambidextrous, conical	White	800	186	0,4	9,5	1 PAIR	112-3966
Hand-specific, conical	White	800	186	0,4	9,5	1 PAIR	112-4140
Ambidextrous, telescopic large wrist	White	800	186	0,4	10	1 PAIR	112-4152
For glove port 220 mm							
Ambidextrous, conical	White	750	220	0,4	8,5	1 PAIR	112-3979
Ambidextrous, conical	White	750	220	0,4	9,5	1 PAIR	112-3980
Ambidextrous, conical	White	800	220	0,4	8,5	1 PAIR	112-4118
Ambidextrous, conical	White	800	220	0,4	9,5	1 PAIR	112-4119
Ambidextrous, conical	White	800	220	0,4	10,5	1 PAIR	112-4117
Ambidextrous, conical	White	800	220	0,6	9,5	1 PAIR	112-4120
Hand-specific, conical	White	800	220	0,4	9,5	1 PAIR	112-4145
For glove port 300 mm							
Ambidextrous, conical	White	750	300	0,4	9	1 PAIR	112-5328
Ambidextrous, conical, washed	White	750	300	0,4	9	1 PAIR	112-4160
Ambidextrous, conical	White	800	300	0,4	9	1 PAIR	112-4167
For glove port 350 mm							
Ambidextrous, conical	White	800	350	0,4	9,5	1 PAIR	112-4156

Gauntlets, dry box
Piercan



High performance butyl rubber

These gloves made of isobutylene polyisoprene rubber provide good chemical resistance and excellent impermeability to gas and liquids. Ideal for use in nuclear industries and in life sciences (pharmaceutical / medical).

- Good resistance to ozone and UV
- Excellent flexibility and dexterity
- Anti-static

EN 388 (3X11), EN 374 (CKL), EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous, conical	Black	750	156	0,6	9,5	1 PAIR	112-3923
Ambidextrous, conical	Black	800	156	0,6	8,5	1 PAIR	112-3937
Ambidextrous, conical	Black	750	186	0,4	9,5	1 PAIR	112-3957
Ambidextrous, conical	Black	800	186	0,4	7,5	1 PAIR	112-3960
Ambidextrous, conical	Black	800	186	0,4	9,5	1 PAIR	112-3961
Ambidextrous, conical	Black	800	220	0,4	9,5	1 PAIR	112-3981
Ambidextrous, conical	Black	750	300	0,6	8,5	1 PAIR	112-4157
Ambidextrous, conical	Black	750	300	0,6	9	1 PAIR	112-4158
Ambidextrous, conical	Black	800	300	0,4	9	1 PAIR	112-4161
Ambidextrous, telescopic large wrist	Black	750	136	0,6	9,5	1 PAIR	112-4151
Hand-specific, conical	Black	750	156	0,6	9,5	1 PAIR	112-4129
Hand-specific, conical	Black	800	220	0,6	9,5	1 PAIR	112-4144
Hand-specific, conical	Black	800	220	0,4	10,5	1 PAIR	112-4143

Gauntlets, dry box
Piercan



High performance butyl rubber / CSM

These gloves are made of two layers, isobutylene polyisoprene rubber and chlorosulfonated PE. The outer layer (CSM) provides good chemical protection while the butyl rubber layer features an excellent impermeability to liquids and gas. Suitable fields of application include nuclear industries and life sciences (pharmaceutical / medical).

- Excellent chemical resistance
- High resistance to ozone and UV
- High flexibility and dexterity

EN 388 (4X11), EN 374 (AKL), EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous, conical	Black	750	186	0,4	7,5	1 PAIR	112-3958
Hand-specific, conical	Black	750	156	0,4	9,5	1 PAIR	112-4128
Hand-specific, conical	Black	800	186	0,4	8,5	1 PAIR	112-4131

Gauntlets, dry box
Piercan



PU

These gloves provide protection against mechanical risks of tear strength, perforation and breaking. They are ideal for applications in high oxidising environment including ozone, active oxygen and free radicals. Suitable fields of application include nuclear industries and life sciences (pharmaceutical / medical).

- Exceptional mechanical properties (puncture, tear, cut)
- High resistance to ozone and UV
- Flexibility and dexterity
- Excellent behavior against ionising radiations

EN 388 (4122), EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous, conical	Blue	800	186	0,4	9,5	1 PAIR	112-3965
Hand-specific, conical	Blue	800	186	0,4	9,5	1 PAIR	112-4139
Ambidextrous, conical	Blue	800	300	0,4	9	1 PAIR	112-4165

Gauntlets, dry box
Piercan



PU / CSM

These gloves are made of two layers: One layer consists of polyurethane and the one is made of chlorosulphonated polyethylene (CSM). The CSM layer provides good chemical protection. Suitable fields of application include nuclear industries and life sciences (pharmaceutical / medical).

- Exceptional level of mechanical properties (puncture and tear)
- Excellent chemical resistance
- High resistance to UV and ozone
- Good dexterity and flexibility, good ageing against ionising radiation

EN 388 (4122), EN 374 (AKL), EN 421; Cat. III

Type	Colour	Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ambidextrous	White	750	156	0,5	9,5	1 PAIR	112-3934
Ambidextrous	White	800	300	0,5	9	1 PAIR	112-4166

O-rings for gauntlets
Piercan



These O-rings can be fitted around the gloves to hold them firmly in position.

Description	Ø (mm)	Pk	Cat. No.
O-ring for glove box gloves	156	1	112-3909
O-ring for glove box gloves	186	1	112-3910
O-ring for glove box gloves	220	1	112-3911
O-ring for glove box gloves	250	1	112-3912
O-ring for glove box gloves	300	1	112-3913



Chemical resistant gloves
Piercan



These hand-specific gloves are made of high performance butyl rubber. They offer a high permeation resistance to gases or water vapours. Ideal for industries which use ketones (MEK, MIBK, acetone), esters (tricresyl phosphate, amyl acetate, ethyl acetate) and highly corrosive acids.

- Narrow wrist, tight fit and anatomical shape
- Good resistance to ozone and UV
- Excellent flexibility and dexterity
- High impermeability against gases and toxic liquids
- Anti-static properties

EN 374 (CKL), EN 388 (3X11), EN 421; Cat. III

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Reusable
Finish	Smooth
Cuff style	Beaded
EN norm	EN 374 (CKL), EN 388 (3X11), EN 421

Colour	Length (mm)	Thickness (mm)	Size	Pk	Cat. No.
Black	330	0,4	6,5	1 PAIR	112-4178
Black	330	0,4	7,5	1 PAIR	112-4179
Black	330	0,4	8,5	1 PAIR	112-4180
Black	330	0,4	9,5	1 PAIR	112-4181



Sleeve protectors, natural rubber
Piercan



These sleeves are manufactured from natural rubber (polyisoprene). They are ideal when working with acids, diluted bases and alcohols. Suitable for use in life sciences (pharmaceutical/ medical).

- Very high resistance to cold conditions (down to -40 °C)
- Very good flexibility and dexterity
- Autoclavable

Colour: Natural

Thickness: 0,8 mm

Type	Length (mm)	Colour	Pk	Cat. No.
Ø 130 mm	450	Natural	1 PAIR	113-8183
Ø 146 mm	450	Natural	1 PAIR	113-8184
Ø 172 mm	480	Natural	1 PAIR	113-8187
Ø 190 mm	530	Natural	1 PAIR	113-8188
Ø 230 mm	530	Natural	1 PAIR	113-8189

THE VWR E-NEWSLETTER

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Sleeve protectors, CSM
Piercan



These durable arm guards are made of Hypalon® (CSM - chlorosulphonated polyethylene). They provide an excellent chemical resistance and a high resistance to ozone and UV. For use with glove boxes.

- Good flexibility
- Excellent behavior to ionising radiations
- Excellent resistance to sterilisation agents (hydrogen peroxyde) and sterilisation processes (gamma and beta radiation)
- Enable a safe isolator glove replacement by keeping sterile conditions

Colour: White

Cuff Ø: 90 mm

Length (mm)	Colour	Pk	Cat. No.
550	White	1 PAIR	113-8191
600	White	1 PAIR	113-8195
550	White	1 PAIR	113-8192
600	White	1 PAIR	113-8193
550	White	1 PAIR	113-8194

AlphaTec®

ALPHATEC ISOLATOR
BOX GLOVES.
Now available in
latex and neoprene

Ansell
Protects™

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Multi compartment dispenser



Acrylic

This storage dispenser is designed for gloves, caps, hairnets and overshoes.

- One large and two small compartments
- Easy loading
- Top lid access

Description	WxDxH (mm)	Colour	Pk	Cat. No.
Multi compartment dispenser (one large, two small)	508x305x457	Transparent	1	113-0032

Dispensers for sterile gloves



Acrylic

These safety dispensers are designed to protect prepacked sterile gloves from contamination. They are constructed of durable 6 mm thick acrylic.

- Design of the dispensing port allows easy access to bagged and prepacked sterile gloves and assures first in/first out usage
- Amber version protects from ozone degradation
- Available in free-standing or wall-mountable versions (wall-mountable version supplied with a heavy-duty wall bracket)

Description	WxDxH (mm)	Colour	Pk	Cat. No.
Dispenser, free-standing	178x305x430	Clear	1	112-0536
Dispenser, free-standing	178x305x430	Amber	1	113-0339

Finger cot dispenser



Acrylic

This dispenser for cleanrooms is designed for applications with finger cots, wipe packets, earplugs, hair nets and more.

- Easy loading
- Top lid access
- Wall-mounted or free-standing

Description	WxDxH (mm)	Colour	Pk	Cat. No.
Finger cot dispenser	152x216x318	White	1	113-0030



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Glove liners



These durable and reusable glove liners are made of 100% nylon. They are compatible with stringent cleanroom requirements and can be used effectively as a gowning glove. Low linting.

- Reduces perspiration and wicks moisture during extended use
- Prevents skin irritation without diminishing tactile sensitivity
- Limits wear and tear to extend life of gloves and conserves resources
- Pre-laundered, will not shrink during washing

Basic weight: 21,5 g/pair ±10%

Thickness: 2 mm ±10%

Surface resistivity: 1 × 109 ±10% ohms/m²

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Reusable
Cuff style	Knit wrist

Model	Colour	Size	Packed	Pk	Cat. No.
Full-finger liners	White	S	15 bags, 20 pairs each	300 PAIR	112-1900
Full-finger liners	White	M	15 bags, 20 pairs each	300 PAIR	112-1899
Full-finger liners	White	L	15 bags, 20 pairs each	300 PAIR	112-1898
Full-finger liners	White	XL	15 bags, 20 pairs each	300 PAIR	112-1904
Half-finger liners	White	S	15 bags, 20 pairs each	300 PAIR	112-1915
Half-finger liners	White	M	15 bags, 20 pairs each	300 PAIR	112-1910
Half-finger liners	White	L	15 bags, 20 pairs each	300 PAIR	112-1905
Half-finger liners	White	XL	15 bags, 20 pairs each	300 PAIR	112-1917

Glove liners, BioClean Halfingers™
Nitritex



Suitable for use in class 10, ISO class 4 cleanrooms.

These ambidextrous half-finger undergloves provide a comfortable barrier between skin and glove. Made of 100% nylon (280 Denier), they are comfortable to wear over long periods of time.

- Fingers- and thumb-free for maximum tactility
- Close fitting, air circulating, anti-slip
- Available sterile or non sterile
- Processed in a cleanroom environment

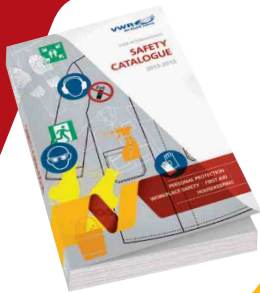
In accordance with ISO 2859

Packaging: One pair per sealed PE bag; 10 bags per sealed outer bag; 20 outer bags per carton liner; one carton liner per carton (200 pairs).

Ambidextrous/Hand-specific	Ambidextrous
Disposable/Reusable	Reusable
Cleanroom Class	10/ISO 4; EU GMP (A)

Model	Colour	Length (mm)	Size	Packed	Pk	Cat. No.
Non sterile	White	145	U*	20 bags, 10 pairs each	200 PAIR	112-3839
Sterile	White	145	U*	20 bags, 10 pairs each	200 PAIR	112-3906

* One size fits all.



VWR SAFETY CATALOGUE

From head to toe protection

Request your copy from your local VWR sales office or vwr.com

Glove liners, B0900
Showa



These seamless knitted gloves made of nylon and polyester are ideal for use as undergloves. Suitable for use in the following industries: Electronic components, Quality Control and integrated circuits.

- Low linting, lightweight gloves
- Optimal dexterity
- Exceptional capacity to absorb perspiration
- Can be washed at 40 °C using a neutral detergent

Cat. I

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Reusable

Colour	Length (mm)	Size	Packed	Pk	Cat. No.
White	170	U*	10 pairs/bag	10 PAIR	112-3483
White	205	U*	10 pairs/bag	10 PAIR	112-3484

*One size fits all

Glove liners, B0910
Showa



These thin half-finger gloves made of polyester are to be worn as inner gloves. Ideal for delicate operations.

- Seamless, highly stretchable and creates very few particles
- Exceptional capacity to absorb perspiration
- Can be washed at 40 °C using a neutral detergent

Cat. I

Ambidextrous/Hand-specific	Hand-specific
Disposable/Reusable	Reusable

Colour	Size	Packed	Pk	Cat. No.
White	U*	10 pairs/bag	10 PAIR	112-3485

*One size fits all

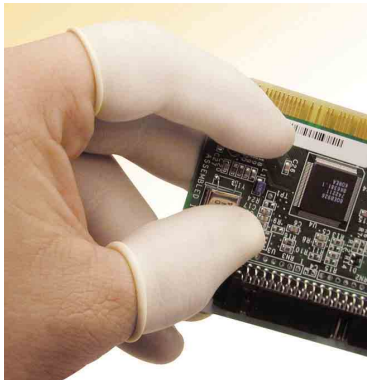


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ESD finger cots, QRP®



Nitrile, non sterile, powder-free

These latex-free finger cots are packaged for ISO 5 (Class 100) cleanroom applications. They are ideal for use with Class II static-sensitive devices (thresholds above 1000 V). Suitable for use in IC industries, wire bonding SMT, WB assembly and for discrete component handling.

- Average surface resistance of 5×10^9 ohms per square unit
- Excellent splash and intermittent protection from many common chemicals and solvents like IPA and acetone
- Consistently low extractables and ionics

Colour: Natural

Size	Pk	Cat. No.
L	720	112-4192

Cleanroom finger cots, QRP® 5C



Latex, non sterile, powder-free, smooth finish

Suitable for use in Class ISO 5, 100 or M3.5 cleanrooms.

These powder-free, washed, rolled finger cots are ideal for clean handling of critical components. Finger cots are processed and are packaged in nitrogen-flushed, stackable TrayPaks.

- Anatomically designed
- Ensuring comfort during wear
- Eliminates contamination risks from silicone oils, skin salts, particulates and plasticisers

Length: 76 mm

Thickness: 0,08 mm

Colour: Natural

Packaging: Packed in a stand-up pouch. 720 finger cots per package.

Size	Pk	Cat. No.
L	720	112-0523
M	720	112-0524
S	720	112-0525
XL	720	112-0526



Cleanroom finger cots, QRP® 7C



Latex, non sterile, powder-free, textured finish

Suitable for use in Class ISO 5, 100 or M3.5 cleanrooms.

These disposable, rolled finger cots are ideal for situations where EOS/ESD is a concern. Typical applications include avionics, marine/consumer electronics, IC manufacturing, wire bonding, assembly/repair operations, SMT/PWB assembly and discrete component handling.

- Anti-static, powder-free
- Suitable for use with "Class II" devices with thresholds above 1000 V
- Surface resistivity: 5×10^{12} ohms/sq

Length: 70 mm

Thickness: 0,08 mm

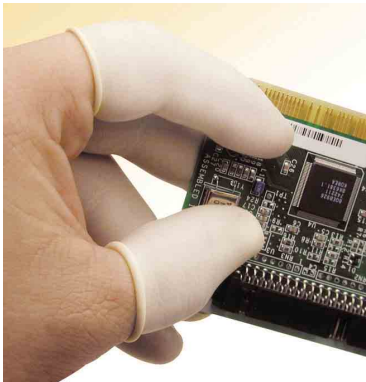
Colour: Pink

Packaging: Packed in a stand-up pouch. 720 finger cots per package.

Size	Pk	Cat. No.
S	720	BSNC100238
M	720	BSNC100239
XL	720	BSNC100241



Cleanroom finger cots, QRP® 9C



Nitrile, non sterile, powder-free

Suitable for use in Class ISO 5, 100 or M3.5 cleanrooms.

These disposable, rolled finger cots are made from 100% nitrile, a preferred alternative to the traditional natural rubber latex finger cots. They are ideal for situations where EOS/ESD is a concern. Typical applications include avionics, marine/consumer electronics, IC manufacturing, wire bonding, assembly/repair operations, SMT/PWB assembly and discrete component handling.

- Anti-static, powder-free
- Completely free of latex and latex proteins
- For use with Class II static-sensitive devices (thresholds above 1000 V)
- Average surface resistance of 5×10⁹ ohms per square unit

Length: 70 mm

Thickness: 0,08 mm

Colour: White

Packaging: Packed in a stand-up pouch. 720 finger cots per package.

Size	Pk	Cat. No.
S	720	BSNC100257
M	720	BSNC100258
L	720	BSNC100259



Finger cots, LWR
North by Honeywell

Latex, non sterile, powdered

These natural rubber finger cots are suitable for many different applications. The thin gauge makes them perfect for extremely sensitive tasks, such as battery manufacturing, electrical work, food processing, laboratory work and photo processing.

- Powdered
- Thin gauge for extremely high sensitivity
- Tapered tip is more comfortable and provides better fit
- In accordance with FDA regulations for food contact

Length: 70 mm

Thickness: 0,076 mm

Colour: White

Size	Pk	Cat. No.
M	1.440	112-3907
L	1.440	112-3908

Finger cots, LNR
North by Honeywell



Nitrile, non sterile, powder-free, smooth finish

Finger cots made of comfortable and stretchy nitrile with anti-static properties. Ideal for cleanroom applications, pharmaceutical industries and electronics assembly.

- Low particle count; eliminates damaging static discharge in many applications
- Very low extractables mean less contamination from reactive ions
- Excellent tactility and uniform thickness

Length: 67 mm

Thickness: 0,076 mm

Colour: Translucent

AQL 2,5; Cat. I

Size	Pk	Cat. No.
S	720	112-1144
M	720	112-1149
L	720	112-1154
XL	720	112-1159



SHOES AND BOOTS

Shoes	90
Boots	100
Clogs	101
Autoclavable clogs	106
Safety shoes	109

CLEANROOM SHOES AND BOOTS



In cleanroom environments it is necessary to minimise the risk of accidents to personnel by slipping and also to prevent faults and downtime caused by the discharge of static electricity.

The correct footwear is necessary in addition to the installed plant, floor areas and garment.

Footwear is worn for many hours each day and must offer safety (for people and processes) as well as comfort.

There are differences in the footwear for safety, protection and industry, which are designed according to the following european standards:

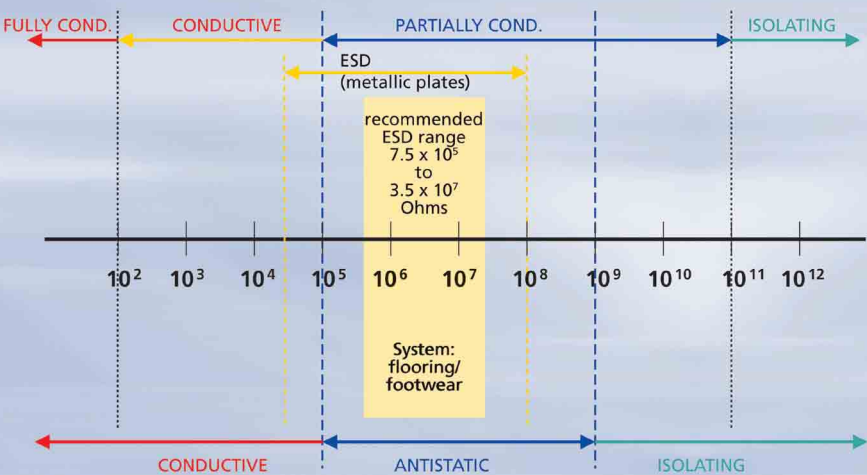
- EN 61340-5-1: Protection of components sensitive to electrostatic charges/overall requirements
- EN 4843-100: Requirements on anti-slip test
- EN ISO 20344: Requirements and test methods
- EN ISO 20345: Specification of the safety shoe
- EN ISO 20346: Specification of the protective shoe
- EN ISO 20347: Specification of the professional shoe

Illustrated steel cap.



Waterproof footwear should be worn wherever large quantities of liquids are present. PU clogs or microfibre shoes, which can be cleaned and disinfected, should be worn. Where it is necessary to limit or prevent electrostatic charging, anti-static or ESD protected footwear is essential.

Electrical resistance



EN ISO 20344 to EN ISO 20347

- Dirt, moisture and temperature can affect the electrical resistance of footwear
- Electrical resistance should be regularly tested on site

Our recommendation: Sole cleaning machines for improved hygiene.

Cleanroom shoes and boots

In cleanroom environments it is necessary to minimise the risk of accidents to personnel by slipping and also to prevent faults and downtime caused by the discharge of static electricity.

The correct footwear is necessary in addition to the installed plant, floor areas and garment.

Footwear is worn for many hours each day and must offer safety (for people and processes) as well as comfort.

Waterproof footwear should be worn wherever large quantities of liquids are present. PU clogs or microfibre shoes, which can be cleaned and disinfected, should be worn. Where it is necessary to limit or prevent electrostatic charging, anti-static or ESD protected footwear is essential.

There are differences in the footwear for safety, protection and industry, which are designed according to the following European standards:

European standards for safety footwear

Safety footwear

EN ISO 20345: Highest protection. Toecaps tested to 200 joule. Classification S.

SB	Basic requirements for safety footwear met - 200 joule Protection
S1	200 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
S2	200 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance.
S3	200 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
S4	200 joule Toecap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
S5	200 joule Toecap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.
Slip resistant rating - one of:	
SRA	Tested on ceramic tile wetted with dilute soap solution
SRB	Tested on steel with glycerol
SRC	SRA + SRB

Additional safety features

Should these products offer some extra protective features then the appropriate symbol will be added i.e. a product that provides 200 joule impact protection, is anti-static and has a heat resistant outsole will be marked SB A HRO.

P	Penetration resistance offered by a steel midsole.
C	Conductive footwear.
A	Anti-static footwear.
HI	Insulation against heat.
CI	Insulation against cold.
E	Energy absorption of seat region.
WRU	Water penetration and absorption resistance.
HRO	Heat resistant to 300 °C.

Protective footwear

EN ISO 20346: Lower protection. Toecaps tested to 100 joule. Classified as P.

PB	Basic requirements for protective footwear met - 100 joule protection.
P1	100 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
P2	100 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Plus water penetration and water absorption resistance.
P3	100 joule Toecap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
P4	100 joule Toecap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
P5	100 joule Toecap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.

Occupational footwear

EN ISO 20347: not required to have a protective toecap.

OB	Basic requirements met.
O1	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
O2	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Plus water penetration and absorption resistance.
O3	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
O4	Basic requirements. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
O5	Basic requirements. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.

ESD = Electro Static Discharge. ESD shoes protect electrostatically endangered components in sensitive workspaces and prevent sparks and explosions.

Sizing guide

EU sizes	34.5	35	35.5	36	37	37.5	38	39	39.5	40	41	41.5	42	42.5	43	44	44.5	45	46	46.5	47	47.5	48	49
UK sizes	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5

Occupational shoes, slip-on, Air Cushion, 2370, Abeba



Anti-static occupational shoes made from microfibre upper and PU sole resistant to hydrocarbons. Suitable for use in kitchens.

- Air cushioned PU sole with high slip resistance
- Integrated insole
- Sanitized® treatment reduces odour and bacterial growth
- Washable at 60 °C

Colour: White

HACCP; EN 20347:2012; O1, SRA

Shoe size	Pk	Cat. No.
35	1 PAIR	114-0522
36	1 PAIR	114-0523
37	1 PAIR	114-0524
38	1 PAIR	114-0525
39	1 PAIR	114-0526
40	1 PAIR	114-0527
41	1 PAIR	114-0528
42	1 PAIR	114-0529
43	1 PAIR	114-0530
44	1 PAIR	114-0531
45	1 PAIR	114-0532
46	1 PAIR	114-0533
47	1 PAIR	114-0534



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ESD occupational shoes, slip-on, Air Cushion, 32370
Abeba



Extremely light ESD shoe made from microfibre upper and PU-sole resistant to hydrocarbons.

- Air cushioned PU walking sole with high slip resistance
- Instep area with elastic band
- Integrated insole
- Sanitized® treatment reduces odour and bacterial growth

Colour: White

EN 61340 (ESD), EN ISO 20347:2012; O1, SRA

Shoe size	Pk	Cat. No.
35	1 PAIR	114-2217
36	1 PAIR	114-2218
37	1 PAIR	114-2219
38	1 PAIR	114-2220
39	1 PAIR	114-2221
40	1 PAIR	114-2222
41	1 PAIR	114-2223
42	1 PAIR	114-2224
43	1 PAIR	114-2225
44	1 PAIR	114-2226
45	1 PAIR	114-2227
46	1 PAIR	114-2228
47	1 PAIR	114-2229



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Occupational shoes, slip-on, Light, 1132/1137

Abeba



Anti-static shoes made from smooth leather upper and a lightweight PU walking sole resistant to hydrocarbons.

- Perspiration absorbing, Silver Point lining
- Replaceable acc Wave insoles; orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Lightweight PU sole with high slip resistance and shock absorbing system
- Instep area with elastic band

Colour: Black or white

BGR 191; EN ISO 20347:2012; O2, FO, SRA

Shoe size	Pk	Cat. No.
Model 1132: White		
35	1 PAIR	114-5092
36	1 PAIR	114-5093
37	1 PAIR	114-5094
38	1 PAIR	114-5095
39	1 PAIR	114-5096
40	1 PAIR	114-5097
41	1 PAIR	114-5098
42	1 PAIR	114-5099
43	1 PAIR	114-5100
44	1 PAIR	114-5101
45	1 PAIR	114-5102
46	1 PAIR	114-5103
47	1 PAIR	114-5104
48	1 PAIR	114-5105
Model 1137: Black		
35	1 PAIR	114-5120
36	1 PAIR	114-5121
37	1 PAIR	114-5122
38	1 PAIR	114-5123
39	1 PAIR	114-5124
40	1 PAIR	114-5125
41	1 PAIR	114-5126
42	1 PAIR	114-5127
43	1 PAIR	114-5128
44	1 PAIR	114-5129
45	1 PAIR	114-5130
46	1 PAIR	114-5131
47	1 PAIR	114-5132
48	1 PAIR	114-5133



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ESD occupational shoes, slip-on, Light, 31132/31137
Abeba



ESD shoe made from smooth leather upper and a lightweight PU walking sole, resistant to hydrocarbons.

- Perspiration absorbing special lining with Silver Point
- Replaceable acc Wave insole, orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Lightweight PU sole with high slip resistance and shock absorbing system
- Instep area with elastic band

Colour: White or black

EN 61340 (ESD), BGR 191; EN ISO 20347:2012; O2, FO, SRA

Shoe size	Pk	Cat. No.
Model 31132: White		
35	1 PAIR	114-5173
36	1 PAIR	114-5174
37	1 PAIR	114-5175
38	1 PAIR	114-5176
39	1 PAIR	114-5177
40	1 PAIR	114-5178
41	1 PAIR	114-5179
42	1 PAIR	114-5180
43	1 PAIR	114-5181
44	1 PAIR	114-5182
45	1 PAIR	114-5183
46	1 PAIR	114-5184
47	1 PAIR	114-5185
48	1 PAIR	114-5186
Model 31137: Black		
35	1 PAIR	114-5187
36	1 PAIR	114-5188
37	1 PAIR	114-5189
38	1 PAIR	114-5190
39	1 PAIR	114-5191
40	1 PAIR	114-5192
41	1 PAIR	114-5193
42	1 PAIR	114-5194
43	1 PAIR	114-5195
44	1 PAIR	114-5196
45	1 PAIR	114-5197
46	1 PAIR	114-5198
47	1 PAIR	114-5199
48	1 PAIR	114-5200



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Occupational shoes, lace-up, Safeway, HiTech D201/D203



Anti-static safety shoes made from breathable texfibre upper and a monodensity PU sole resistant to oils and hydrocarbons.

- Antibacterial fabric lining
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White or black

EN ISO 20347:2004 + A12007; O1, FO, SRC

Shoe size	Pk	Cat. No.
Model D201: White		
35	1 PAIR	114-5569
36	1 PAIR	114-5570
37	1 PAIR	114-5571
38	1 PAIR	114-5572
39	1 PAIR	114-5573
40	1 PAIR	114-5574
41	1 PAIR	114-5575
42	1 PAIR	114-5576
43	1 PAIR	114-5577
44	1 PAIR	114-5578
45	1 PAIR	114-5579
46	1 PAIR	114-5580
47	1 PAIR	114-5581
Model D203: Black		
35	1 PAIR	114-5582
36	1 PAIR	114-5583
37	1 PAIR	114-5584
38	1 PAIR	114-5585
39	1 PAIR	114-5586
40	1 PAIR	114-5587
41	1 PAIR	114-5588
42	1 PAIR	114-5589
43	1 PAIR	114-5590
44	1 PAIR	114-5591
45	1 PAIR	114-5592
46	1 PAIR	114-5593
47	1 PAIR	114-5594



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Occupational shoes, lace-up, Light, 1133/1138
Abeba



Anti-static shoes made from smooth leather upper, reflective material, and a lightweight PU walking sole, resistant to hydrocarbons. Suitable for use in kitchens.

- Perspiration absorbing, Silver Point lining
- Replaceable acc Wave insoles; orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Lightweight PU sole with high slip resistance and shock absorbing system

Colour: Black or white

BGR 191; EN ISO 20347:2012; O2, FO, SRA

Shoe size	Pk	Cat. No.
Model 1133: White		
35	1 PAIR	114-5106
36	1 PAIR	114-5107
37	1 PAIR	114-5108
38	1 PAIR	114-5109
39	1 PAIR	114-5110
40	1 PAIR	114-5111
41	1 PAIR	114-5112
42	1 PAIR	114-5113
43	1 PAIR	114-5114
44	1 PAIR	114-5115
45	1 PAIR	114-5116
46	1 PAIR	114-5117
47	1 PAIR	114-5118
48	1 PAIR	114-5119
Model 1138: Black		
35	1 PAIR	114-1099
36	1 PAIR	114-1100
37	1 PAIR	114-1101
38	1 PAIR	114-1102
39	1 PAIR	114-1103
40	1 PAIR	114-1104
41	1 PAIR	114-1105
42	1 PAIR	114-1106
43	1 PAIR	114-1107
44	1 PAIR	114-1108
45	1 PAIR	114-1109
46	1 PAIR	114-1110
47	1 PAIR	114-1111
48	1 PAIR	114-1112



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ESD occupational shoes, lace-up, Light, 31133/31138
Abeba



ESD shoe made from smooth leather, reflective material, and a lightweight PU walking sole, resistant to hydrocarbons.

- Perspiration absorbing, Silver Point lining
- Replaceable acc Wave insole; orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Lightweight PU sole with high slip resistance and shock absorbing system

Colour: White or black

EN 61340 (ESD), BGR 191, EN ISO 20347:2012, O2, FO, SRA

Shoe size	Pk	Cat. No.
Model 31133: White		
35	1 PAIR	114-2126
36	1 PAIR	114-2127
37	1 PAIR	114-2128
38	1 PAIR	114-2129
39	1 PAIR	114-2130
40	1 PAIR	114-2131
41	1 PAIR	114-2132
42	1 PAIR	114-2133
43	1 PAIR	114-2134
44	1 PAIR	114-2135
45	1 PAIR	114-2136
46	1 PAIR	114-2137
47	1 PAIR	114-2138
48	1 PAIR	114-2139
Model 31138: Black		
35	1 PAIR	114-5201
36	1 PAIR	114-5202
37	1 PAIR	114-5203
38	1 PAIR	114-5204
39	1 PAIR	114-5205
40	1 PAIR	114-5206
41	1 PAIR	114-5207
42	1 PAIR	114-5208
43	1 PAIR	114-5209
44	1 PAIR	114-5210
45	1 PAIR	114-5211
46	1 PAIR	114-5212
47	1 PAIR	114-5213
48	1 PAIR	114-5214



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Occupational shoes, slip-on, Safeway, HiTech, P301/P303



Anti-static occupational shoes made from Texfiber upper and monodensity PU sole resistant to oils and hydrocarbons.

- Antibacterial fabric lining
- Anti-slip sole
- Shock absorber heel
- Machine washable up to 40 °C

Colour: White or black

EN ISO 20347:2004; O1, FO, SRC

Shoe size	Pk	Cat. No.
Model P301: White		
35	1 PAIR	114-5764
36	1 PAIR	114-5765
37	1 PAIR	114-5766
38	1 PAIR	114-5767
39	1 PAIR	114-5768
40	1 PAIR	114-5769
41	1 PAIR	114-5770
42	1 PAIR	114-5771
43	1 PAIR	114-5772
44	1 PAIR	114-5773
45	1 PAIR	114-5774
46	1 PAIR	114-5775
47	1 PAIR	114-5776
Model P303: Black		
35	1 PAIR	114-5777
36	1 PAIR	114-5778
37	1 PAIR	114-5779
38	1 PAIR	114-5780
39	1 PAIR	114-5781
40	1 PAIR	114-5782
41	1 PAIR	114-5783
42	1 PAIR	114-5784
43	1 PAIR	114-5785
44	1 PAIR	114-5786
45	1 PAIR	114-5787
46	1 PAIR	114-5788
47	1 PAIR	114-5789



ESD occupational shoes, slip-on, Safeway, E301



ESD shoe made from breathable Texfiber upper and a monodensity PU sole resistant to oils and fuels.

- Breathable fabric lining
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White

EN 61340 (ESD); EN ISO 20347:2004; O1, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5686
36	1 PAIR	114-5687
37	1 PAIR	114-5688
38	1 PAIR	114-5689
39	1 PAIR	114-5690
40	1 PAIR	114-5691
41	1 PAIR	114-5692
42	1 PAIR	114-5693
43	1 PAIR	114-5694
44	1 PAIR	114-5695
45	1 PAIR	114-5696
46	1 PAIR	114-5697
47	1 PAIR	114-5698

Occupational boots, pull-on, Safeway, Euro Whites, S014



These anti-static occupational boots are made from a waterproof PVC/nitrile rubber bootleg and a PVC/nitrile rubber sole which is resistant to oils, animal fats and moderately acid substances.

- Shock absorber heel
- Anti-slip sole

Colour: White

EN ISO 20347:2004 + A12007; O4, SRA

Shoe size	Pk	Cat. No.
36	1 PAIR	114-5398
37	1 PAIR	114-5399
38	1 PAIR	114-5400
39	1 PAIR	114-5401
40	1 PAIR	114-5402
41	1 PAIR	114-5403
42	1 PAIR	114-5404
43	1 PAIR	114-5405
44	1 PAIR	114-5406
45	1 PAIR	114-5407
46	1 PAIR	114-5408
47	1 PAIR	114-5409



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Occupational shoes, clogs, Rubber, 9200 to 9310

Abeba



Anti-static clogs made from perforated leather upper, a foldable, adjustable heel strap and a rubber sole with cross/circle profile, resistant to acids, bases (cleaning agents) and fuels.

- Leather lining
- PU midsole
- Non-slip special rubber sole
- Sanitized® treatment reduces odour and bacterial growth

Colour: White, black or blue

EN ISO 20347:2012; OB, FO, SRC

Shoe size	Pk	Cat. No.
Model 9200: Smooth upper, white		
36	1 PAIR	114-5239
37	1 PAIR	114-5240
38	1 PAIR	114-5241
39	1 PAIR	114-5242
40	1 PAIR	114-5243
41	1 PAIR	114-5244
42	1 PAIR	114-5245
43	1 PAIR	114-5246
44	1 PAIR	114-5247
45	1 PAIR	114-5248
46	1 PAIR	114-5249
47	1 PAIR	114-5250
Model 9252: Smooth upper, black		
36	1 PAIR	114-5263
37	1 PAIR	114-5264
38	1 PAIR	114-5265
39	1 PAIR	114-5266
40	1 PAIR	114-5267
41	1 PAIR	114-5268
42	1 PAIR	114-5269
43	1 PAIR	114-5270
44	1 PAIR	114-5271
45	1 PAIR	114-5272
46	1 PAIR	114-5273
47	1 PAIR	114-5274
Model 9250: Smooth upper, blue		
36	1 PAIR	114-5251
37	1 PAIR	114-5252
38	1 PAIR	114-5253
39	1 PAIR	114-5254
40	1 PAIR	114-5255
41	1 PAIR	114-5256
42	1 PAIR	114-5257
43	1 PAIR	114-5258
44	1 PAIR	114-5259
45	1 PAIR	114-5260
46	1 PAIR	114-5261
47	1 PAIR	114-5262
Model 9300: Perforated upper, white		
36	1 PAIR	114-5275
37	1 PAIR	114-5276
38	1 PAIR	114-5277
39	1 PAIR	114-5278
40	1 PAIR	114-5279
41	1 PAIR	114-5280
42	1 PAIR	114-5281
43	1 PAIR	114-5282
44	1 PAIR	114-5283
45	1 PAIR	114-5284
46	1 PAIR	114-5285
47	1 PAIR	114-5286
Model 9310: Perforated upper, black		
36	1 PAIR	114-5287
37	1 PAIR	114-5288
38	1 PAIR	114-5289
39	1 PAIR	114-5290
40	1 PAIR	114-5291
41	1 PAIR	114-5292
42	1 PAIR	114-5293
43	1 PAIR	114-5294
44	1 PAIR	114-5295

Continued on next page

Shoes and boots

Clogs

Continued from previous page

Shoe size	Pk	Cat. No.
Model 9310: Perforated upper, black		
45	1 PAIR	114-5296
46	1 PAIR	114-5297
47	1 PAIR	114-5298



ESD occupational shoes, clogs, Rubber, 5200/5250

Abeba



ESD clogs made from smooth leather upper, a foldable, adjustable heel strap, and a rubber sole with cross/ circle profile, resistant to acids, bases (cleaning agents) and fuels.

- Leather lining
- PU midsole
- Non-slip special rubber sole
- Sanitized® treatment reduces odour and bacterial growth

Colour: White or blue

EN 61340 (ESD); TÜV GS DIN 4843/100 § 3.1v.8/93, EN ISO 20347:2012; OB, FO, A, SRC

Shoe size	Pk	Cat. No.
Model 5200: White		
36	1 PAIR	114-1176
37	1 PAIR	114-2737
38	1 PAIR	114-2738
39	1 PAIR	114-2739
40	1 PAIR	114-2740
41	1 PAIR	114-2741
42	1 PAIR	114-2742
43	1 PAIR	114-2743
44	1 PAIR	114-2744
45	1 PAIR	114-2745
46	1 PAIR	114-1953
47	1 PAIR	114-1954
Model 5250: Dark blue		
36	1 PAIR	114-4617
37	1 PAIR	114-4618
38	1 PAIR	114-4619
39	1 PAIR	114-4620
40	1 PAIR	114-4621
41	1 PAIR	114-4622
42	1 PAIR	114-4623
43	1 PAIR	114-4624
44	1 PAIR	114-4625
45	1 PAIR	114-4626
46	1 PAIR	114-4627
47	1 PAIR	114-4628



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ESD occupational shoes, clogs, Rubber, 5300/5310
Abeba



ESD clogs made from perforated leather upper, a foldable, adjustable heel strap and a rubber sole with cross/circle profile, resistant to acids, bases (cleaning agents) and fuels.

- Leather lining
- PU midsole
- Non-slip special rubber sole
- Sanitized® treatment reduces odour and bacterial growth

Colour: White or black

EN 61340 (ESD); TÜV GS DIN 4843/100 § 3.1v.8/93, EN ISO 20347:2012; OB, A, FO, SRC

Shoe size	Pk	Cat. No.
Model 5300: Perforated upper, white		
36	1 PAIR	114-2636
37	1 PAIR	114-2637
38	1 PAIR	114-2638
39	1 PAIR	114-2639
40	1 PAIR	114-2640
41	1 PAIR	114-2641
42	1 PAIR	114-2642
43	1 PAIR	114-2643
44	1 PAIR	114-2644
45	1 PAIR	114-2645
46	1 PAIR	114-2646
47	1 PAIR	114-2647
Model 5310: Perforated upper, black		
36	1 PAIR	114-5227
37	1 PAIR	114-5228
38	1 PAIR	114-5229
39	1 PAIR	114-5230
40	1 PAIR	114-5231
41	1 PAIR	114-5232
42	1 PAIR	114-5233
43	1 PAIR	114-5234
44	1 PAIR	114-5235
45	1 PAIR	114-5236
46	1 PAIR	114-5237
47	1 PAIR	114-5238

Occupational shoes, clogs, Safeway, Hi-Tech A101



Anti-static clog made from perforated Texfiber upper, a removable heel strap, and a monodensity PU sole resistant to oils and fuels.

- Microfibre insole
- Antibacterial treated
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White

EN ISO 20347:2004 + A12007; OB, A, E, FO, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5299
36	1 PAIR	114-5300
37	1 PAIR	114-5301
38	1 PAIR	114-5302
39	1 PAIR	114-5303
40	1 PAIR	114-5304
41	1 PAIR	114-5305
42	1 PAIR	114-5306
43	1 PAIR	114-5307
44	1 PAIR	114-5308
45	1 PAIR	114-5309
46	1 PAIR	114-5310
47	1 PAIR	114-5311

Occupational shoes, clogs, Safeway, Hi-Tech A701/A703



Anti-static clog made from Texfiber upper, a removable heel strap, and a monodensity PU sole resistant to oils and fuels.

- Microfibre insole
- Antibacterial treated
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White or black

EN ISO 20347:2004 + A12007; OB, A, E, FO, SRC

Shoe size	Pk	Cat. No.
A701: White		
35	1 PAIR	114-5338
36	1 PAIR	114-5339
37	1 PAIR	114-5340
38	1 PAIR	114-5341
39	1 PAIR	114-5342
40	1 PAIR	114-5343
41	1 PAIR	114-5344
42	1 PAIR	114-5345
43	1 PAIR	114-5346
44	1 PAIR	114-5347
45	1 PAIR	114-5348
46	1 PAIR	114-5349
47	1 PAIR	114-5350
A703: Black		
35	1 PAIR	114-5351
36	1 PAIR	114-5352
37	1 PAIR	114-5353
38	1 PAIR	114-5354
39	1 PAIR	114-5355
40	1 PAIR	114-5356
41	1 PAIR	114-5357
42	1 PAIR	114-5358
43	1 PAIR	114-5359
44	1 PAIR	114-5360
45	1 PAIR	114-5361
46	1 PAIR	114-5362
47	1 PAIR	114-5363



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ESD occupational shoes, clogs, Safeway, E101/E103



ESD shoe made from perforated texfiber upper and a monodensity PU sole resistant to oils and fuels.

- Breathable fabric lining
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White or black

EN 61340 (ESD); ISO 20347:2012; OB, FO, A, SRC

Shoe size	Pk	Cat. No.
White		
35	1 PAIR	114-5621
36	1 PAIR	114-5622
37	1 PAIR	114-5623
38	1 PAIR	114-5624
39	1 PAIR	114-5625
40	1 PAIR	114-5626
41	1 PAIR	114-5627
42	1 PAIR	114-5628
43	1 PAIR	114-5629
44	1 PAIR	114-5630
45	1 PAIR	114-5631
46	1 PAIR	114-5632
47	1 PAIR	114-5633
Black		
35	1 PAIR	114-5634
36	1 PAIR	114-5635
37	1 PAIR	114-5636
38	1 PAIR	114-5637
39	1 PAIR	114-5638
40	1 PAIR	114-5639
41	1 PAIR	114-5640
42	1 PAIR	114-5641
43	1 PAIR	114-5642
44	1 PAIR	114-5643
45	1 PAIR	114-5644
46	1 PAIR	114-5645
47	1 PAIR	114-5646



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Occupational shoes, clogs, Top Clog Autoclavable
VWR International



Anti-static clogs made from thermoplastic material with a wide fitting, comfortable shape and a slip resistant sole. Machine washable at 90 °C; autocavable at 135 °C

- Resistant to high temperature
- Energy absorption in the heel
- Side perforation for ventilation
- Antibacterial and anti-vibration injected insole
- Attached pivoting heelstrap

Colour: White, black, green, blue, pink or red

EN ISO 20347; OB, A, E, SRB

Shoe size	Pk	Cat. No.
White		
34/35	1 PAIR	114-5000
36/37	1 PAIR	114-5001
38/39	1 PAIR	114-5002
40/41	1 PAIR	114-5003
42/43	1 PAIR	114-5004
44/45	1 PAIR	114-5005
46/47	1 PAIR	114-5006
Black		
34/35	1 PAIR	114-5007
36/37	1 PAIR	114-5008
38/39	1 PAIR	114-5009
40/41	1 PAIR	114-5010
42/43	1 PAIR	114-5011
44/45	1 PAIR	114-5012
46/47	1 PAIR	114-5013
Green		
34/35	1 PAIR	114-5014
36/37	1 PAIR	114-5015
38/39	1 PAIR	114-5016
40/41	1 PAIR	114-5017
42/43	1 PAIR	114-5018
44/45	1 PAIR	114-5019
46/47	1 PAIR	114-5020
Blue		
34/35	1 PAIR	114-5021
36/37	1 PAIR	114-5022
38/39	1 PAIR	114-5023
40/41	1 PAIR	114-5024
42/43	1 PAIR	114-5025
44/45	1 PAIR	114-5026
46/47	1 PAIR	114-5027
Pink		
34/35	1 PAIR	114-5028
36/37	1 PAIR	114-5029
38/39	1 PAIR	114-5030
40/41	1 PAIR	114-5031
42/43	1 PAIR	114-5032
44/45	1 PAIR	114-5033
46/47	1 PAIR	114-5034
Red		
34/35	1 PAIR	114-5035
36/37	1 PAIR	114-5036
38/39	1 PAIR	114-5037
40/41	1 PAIR	114-5038
42/43	1 PAIR	114-5039
44/45	1 PAIR	114-5040
46/47	1 PAIR	114-5041



Occupational shoes, autoclavable clogs, 9600 Series
Abeba



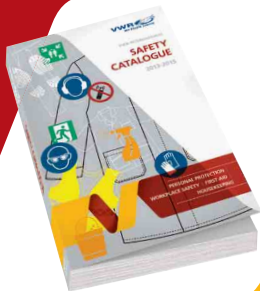
Autoclavable clog with foldable and adjustable heel strap.

- Autoclavable, sterilisable special material
- Washable at 60 °C
- Anti-static

Colour: White

EN ISO 20347:2012; A, E, SRC

Shoe size	Pk	Cat. No.
White		
35/36	1 PAIR	114-3820
37/38	1 PAIR	114-3821
39/40	1 PAIR	114-3822
41/42	1 PAIR	114-3823
43/44	1 PAIR	114-3824
45/46	1 PAIR	114-3825
Blue		
35/36	1 PAIR	114-3826
37/38	1 PAIR	114-3827
39/40	1 PAIR	114-3828
41/42	1 PAIR	114-3829
43/44	1 PAIR	114-3830
45/46	1 PAIR	114-3831
Green		
35/36	1 PAIR	114-3832
37/38	1 PAIR	114-3833
39/40	1 PAIR	114-3834
41/42	1 PAIR	114-3835
43/44	1 PAIR	114-3836
45/46	1 PAIR	114-3837
Orange		
35/36	1 PAIR	114-3838
37/38	1 PAIR	114-3839
39/40	1 PAIR	114-3840
41/42	1 PAIR	114-3841
43/44	1 PAIR	114-3842
45/46	1 PAIR	114-3843



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ESD occupational shoes, clogs, autoclavable, 39600
Abeba



Snug-fitting, autoclavable and sterilisable ESD-clogs. Ideal for operating theatres, and for the food and pharmaceutical industries.

- Foldable heel strap
- Sole with high slip resistance
- Shock absorber heel
- Autoclavable at 121 °C
- Washable at 60 °C

Colour: White

EN 61340 (ESD), EN ISO 20347; SRA, E

Shoe size	Pk	Cat. No.
Model 39600: White		
35/36	1 PAIR	114-2192
37/38	1 PAIR	114-2194
39/40	1 PAIR	114-2195
41/42	1 PAIR	114-2196
43/44	1 PAIR	114-2197
45/46	1 PAIR	114-2198
Model 39610: Blue		
35/36	1 PAIR	114-2199
37/38	1 PAIR	114-2200
39/40	1 PAIR	114-2201
41/42	1 PAIR	114-2202
43/44	1 PAIR	114-2216
45/46	1 PAIR	114-2203
Model 39620: Green		
35/36	1 PAIR	114-2204
37/38	1 PAIR	114-2205
39/40	1 PAIR	114-2206
41/42	1 PAIR	114-2207
43/44	1 PAIR	114-2208
45/46	1 PAIR	114-2209
Model 39630: Orange		
35/36	1 PAIR	114-2210
37/38	1 PAIR	114-2211
39/40	1 PAIR	114-2212
41/42	1 PAIR	114-2213
43/44	1 PAIR	114-2214
45/46	1 PAIR	114-2215



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Safety shoes, slip-on, Safeway, HiTech P322/P323



Anti-static safety shoes made from waterproof Microsafe material and a light monodensity PU sole, resistant to oils and fuels.

- Antibacterial lining
- Shock absorber heel
- Protective toecap made from steel (200 J)
- Machine washable up to 40 °C

Colour: White or black

EN ISO 20345:2004; S2, SRC

Shoe size	Pk	Cat. No.
Model P322: White		
35	1 PAIR	114-5790
36	1 PAIR	114-5791
37	1 PAIR	114-5792
38	1 PAIR	114-5793
39	1 PAIR	114-5794
40	1 PAIR	114-5795
41	1 PAIR	114-5796
42	1 PAIR	114-5797
43	1 PAIR	114-5798
44	1 PAIR	114-5799
45	1 PAIR	114-5800
46	1 PAIR	114-5801
47	1 PAIR	114-5802
49	1 PAIR	114-5803
Model P322: Black		
35	1 PAIR	114-5804
36	1 PAIR	114-5805
37	1 PAIR	114-5806
38	1 PAIR	114-5807
39	1 PAIR	114-5808
40	1 PAIR	114-5809
41	1 PAIR	114-5810
42	1 PAIR	114-5811
43	1 PAIR	114-5391
44	1 PAIR	114-5392
45	1 PAIR	114-5393
46	1 PAIR	114-5394
47	1 PAIR	114-5395
48	1 PAIR	114-5396
49	1 PAIR	114-5397



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ESD safety shoes, slip-on, Safeway, E311/E313



These anti-static ESD shoes are made from breathable Texfiber upper and a monodensity PU sole, resistant to oils and fuels.

- Breathable fabric lining
- Anti-slip sole
- Shock absorber heel
- Machine washable at 40 °C

Colour: White or black

EN 61340-5-1 (ESD), EN ISO 20345:2004; S1, SRC

Shoe size	Pk	Cat. No.
Model E311: White		
35	1 PAIR	114-5699
36	1 PAIR	114-5700
37	1 PAIR	114-5701
38	1 PAIR	114-5702
39	1 PAIR	114-5703
40	1 PAIR	114-5704
41	1 PAIR	114-5705
42	1 PAIR	114-5706
43	1 PAIR	114-5707
44	1 PAIR	114-5708
45	1 PAIR	114-5709
46	1 PAIR	114-5710
47	1 PAIR	114-5711
Model E313: Black		
35	1 PAIR	114-5712
36	1 PAIR	114-5713
37	1 PAIR	114-5714
38	1 PAIR	114-5715
39	1 PAIR	114-5716
40	1 PAIR	114-5717
41	1 PAIR	114-5718
42	1 PAIR	114-5719
43	1 PAIR	114-5720
44	1 PAIR	114-5721
45	1 PAIR	114-5722
46	1 PAIR	114-5723
47	1 PAIR	114-5724



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Safety shoes, slip-on, Static Control, 1392
Abeba



Metal-free, anti-static safety shoe made from microfibre, reflective material, and a nitrile sole resistant to acids, bases (cleaning agents) and hydrocarbon. Ideal for use in kitchens and the food industry.

- ASC (anti-slip-contact) nitrile rubber sole
- Replaceable acc Wave insole, orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Composite toecap
- PU midsole
- Washable at 30 °C

Colour: White

BGR 191; HACCP; EN ISO 20345:2011, S2, SRA

Shoe size	Pk	Cat. No.
36	1 PAIR	114-5134
37	1 PAIR	114-5135
38	1 PAIR	114-5136
39	1 PAIR	114-5137
40	1 PAIR	114-5138
41	1 PAIR	114-5139
42	1 PAIR	114-5140
43	1 PAIR	114-5141
44	1 PAIR	114-5142
45	1 PAIR	114-5143
46	1 PAIR	114-5144
47	1 PAIR	114-5145



ESD safety shoes, slip-on, Static Control, 31392
Abeba



Metal-free ESD shoe made from microfibre, reflective material, and a nitrile sole resistant to acids, bases (cleaning agents) and fuels. Ideal for use in kitchens and the food industry.

- ASC (anti-slip-contact) nitrile rubber sole
- Replaceable acc Wave insole, orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Composite toecap
- PU midsole
- Washable at 30 °C

Colour: White

EN 61340 (ESD); BGR 191; HACCP; EN ISO 20345:2011, S2, SRA

Shoe size	Pk	Cat. No.
36	1 PAIR	114-5215
37	1 PAIR	114-5216
38	1 PAIR	114-5217
39	1 PAIR	114-5218
40	1 PAIR	114-5219
41	1 PAIR	114-5220
42	1 PAIR	114-5221
43	1 PAIR	114-5222
44	1 PAIR	114-5223
45	1 PAIR	114-5224
46	1 PAIR	114-5225
47	1 PAIR	114-5226

Safety shoes, lace-up, Safeway, HiTech D211/D213



Anti-static safety shoe made from breathable Texfiber upper and a monodensity PU sole, resistant to oils and fuels.

- Antibacterial fabric lining
- Shock absorber heel
- Protective toecap made from steel (200 J)
- Puncture resistant midsole
- Machine washable up to 40 °C

Colour: White or Black

EN ISO 20345:2004; S2, SRC

Shoe size	Pk	Cat. No.
Model D211: White		
35	1 PAIR	114-5595
36	1 PAIR	114-5596
37	1 PAIR	114-5597
38	1 PAIR	114-5598
39	1 PAIR	114-5599
40	1 PAIR	114-5600
41	1 PAIR	114-5601
42	1 PAIR	114-5602
43	1 PAIR	114-5603
44	1 PAIR	114-5604
45	1 PAIR	114-5605
46	1 PAIR	114-5606
47	1 PAIR	114-5607
Model D213: Black		
35	1 PAIR	114-5608
36	1 PAIR	114-5609
37	1 PAIR	114-5610
38	1 PAIR	114-5611
39	1 PAIR	114-5612
40	1 PAIR	114-5613
41	1 PAIR	114-5614
42	1 PAIR	114-5615
43	1 PAIR	114-5616
44	1 PAIR	114-5617
45	1 PAIR	114-5618
46	1 PAIR	114-5619
47	1 PAIR	114-5620



ESD safety shoes, lace-up, Safeway, E213



Anti-static ESD shoe made from perforated texfibre and a monodensity PU sole, resistant to oils and fuels.

- Breathable fabric lining
- Anti-slip sole
- Shock absorber heel
- Protective toecap made from steel (200 J)
- Machine washable at 40 °C

Colour: Black

EN 61340-5-1 (ESD), EN ISO 20347:2004; S1, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5673
36	1 PAIR	114-5674
37	1 PAIR	114-5675
38	1 PAIR	114-5676
39	1 PAIR	114-5677
40	1 PAIR	114-5678
41	1 PAIR	114-5679
42	1 PAIR	114-5680
43	1 PAIR	114-5681
44	1 PAIR	114-5682
45	1 PAIR	114-5683
46	1 PAIR	114-5684
47	1 PAIR	114-5685

Safety shoes, lace-up, Light, 1033/1038
Abeba



Anti-static shoe made from smooth leather upper, reflective material, and a lightweight PU sole, resistant to fuels. Suitable for use in kitchens.

- Perspiration absorbing, Silver Point lining
- Replaceable acc Wave insoles, orthopedic insoles possible
- Sanitized® treatment reduces odour and bacterial growth
- Lightweight PU sole with high slip resistance and shock absorbing system
- Protective toecap made from steel
- Instep area with elastic band

Colour: White or black

BGR 191; EN ISO 20345:2011; S2, SRA

Shoe size	Pk	Cat. No.
Model 1033: White		
35	1 PAIR	114-5064
36	1 PAIR	114-5065
37	1 PAIR	114-5066
38	1 PAIR	114-5067
39	1 PAIR	114-5068
40	1 PAIR	114-5069
41	1 PAIR	114-5070
42	1 PAIR	114-5071
43	1 PAIR	114-5072
44	1 PAIR	114-5073
45	1 PAIR	114-5074
46	1 PAIR	114-5075
47	1 PAIR	114-5076
48	1 PAIR	114-5077
Model 1038: Black		
35	1 PAIR	114-5078
36	1 PAIR	114-5079
37	1 PAIR	114-5080
38	1 PAIR	114-5081
39	1 PAIR	114-5082
40	1 PAIR	114-5083
41	1 PAIR	114-5084
42	1 PAIR	114-5085
43	1 PAIR	114-5086
44	1 PAIR	114-5087
45	1 PAIR	114-5088
46	1 PAIR	114-5089
47	1 PAIR	114-5090
48	1 PAIR	114-5091



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ESD safety shoes, lace-up, Light, 31033/31038
Abeba



- ESD safety shoe made from smooth leather upper, reflective inserts, and a lightweight PU sole, resistant to fuels.
- Perspiration absorbing, Silver Point lining
 - Replaceable acc Wave insole, orthopedic insoles possible
 - Sanitized® treatment reduces odour and bacterial growth
 - Lightweight PU sole with high slip resistance and shock absorbing system
 - Protective toecap made from steel

Colour: White or black
EN 61340 (ESD), BGR 191, EN ISO 20345:2011; S2, SRA

Shoe size	Pk	Cat. No.
White		
35	1 PAIR	114-4589
36	1 PAIR	114-4590
37	1 PAIR	114-4591
38	1 PAIR	114-4592
39	1 PAIR	114-4593
40	1 PAIR	114-4594
41	1 PAIR	114-4595
42	1 PAIR	114-4596
43	1 PAIR	114-4597
44	1 PAIR	114-4598
45	1 PAIR	114-4599
46	1 PAIR	114-4600
47	1 PAIR	114-4601
48	1 PAIR	114-4602
Black		
35	1 PAIR	114-5159
36	1 PAIR	114-5160
37	1 PAIR	114-5161
38	1 PAIR	114-5162
39	1 PAIR	114-5163
40	1 PAIR	114-5164
41	1 PAIR	114-5165
42	1 PAIR	114-5166
43	1 PAIR	114-5167
44	1 PAIR	114-5168
45	1 PAIR	114-5169
46	1 PAIR	114-5170
47	1 PAIR	114-5171
48	1 PAIR	114-5172

Safety shoes, lace-up, Protektor Line, 1610
Abeba



- Anti-static shoe made from smooth leather upper, reflective material, and a PU sole.
- Leather lining
 - PU sole with high slip resistance
 - Protective toecap made from steel
 - Penetration resistant steel midsole

Colour: White
EN ISO 20345:2011; S3, SRC

Shoe size	Pk	Cat. No.
36	1 PAIR	114-5146
37	1 PAIR	114-5147
38	1 PAIR	114-5148
39	1 PAIR	114-5149
40	1 PAIR	114-5150
41	1 PAIR	114-5151
42	1 PAIR	114-5152
43	1 PAIR	114-5153
44	1 PAIR	114-5154
45	1 PAIR	114-5155
46	1 PAIR	114-5156
47	1 PAIR	114-5157
48	1 PAIR	114-5158

Safety shoes, clogs, Safeway, HiTech A111/A113



These anti-static safety clogs are made from a breathable perforated texfibre upper, a removable heel strap, and a monodensity PU sole resistant to oils and fuels.

- Antibacterial fabric lining
- Anti-slip sole
- Shock absorber heel
- Protective toecap made from steel (200 J)
- Machine washable at 40 °C

Colour: White or black

EN ISO 20345:2004 + A1:2007; SB, EA, SRC

Shoe size	Pk	Cat. No.
Model A111: White		
35	1 PAIR	114-5312
36	1 PAIR	114-5313
37	1 PAIR	114-5314
38	1 PAIR	114-5315
39	1 PAIR	114-5316
40	1 PAIR	114-5317
41	1 PAIR	114-5318
42	1 PAIR	114-5319
43	1 PAIR	114-5320
44	1 PAIR	114-5321
45	1 PAIR	114-5322
46	1 PAIR	114-5323
47	1 PAIR	114-5324
Model A113: Black		
35	1 PAIR	114-5325
36	1 PAIR	114-5326
37	1 PAIR	114-5327
38	1 PAIR	114-5328
39	1 PAIR	114-5329
40	1 PAIR	114-5330
41	1 PAIR	114-5331
42	1 PAIR	114-5332
43	1 PAIR	114-5333
44	1 PAIR	114-5334
45	1 PAIR	114-5335
46	1 PAIR	114-5336
47	1 PAIR	114-5337



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Safety shoes, clogs, Safeway, HiTech, A711/A713



These anti-static safety clogs are made from Texfibre upper, a removable heel strap, and a monodensity PU sole resistant to oils and fuels.

- Antibacterial fabric lining
- Anti-slip sole
- Protective toecap made from steel (200 J)
- Machine washable at 40 °C

Colour: White or black

EN ISO 20345:2004 + A1:2007; SB, EA, SRC

Shoe size	Pk	Cat. No.
Model A711: White		
35	1 PAIR	114-5364
36	1 PAIR	114-5365
37	1 PAIR	114-5366
38	1 PAIR	114-5367
39	1 PAIR	114-5368
40	1 PAIR	114-5369
41	1 PAIR	114-5370
42	1 PAIR	114-5371
43	1 PAIR	114-5372
44	1 PAIR	114-5373
45	1 PAIR	114-5374
46	1 PAIR	114-5375
47	1 PAIR	114-5376
Model A713: Black		
35	1 PAIR	114-5377
36	1 PAIR	114-5378
37	1 PAIR	114-5379
38	1 PAIR	114-5380
39	1 PAIR	114-5381
40	1 PAIR	114-5382
41	1 PAIR	114-5383
42	1 PAIR	114-5384
43	1 PAIR	114-5385
44	1 PAIR	114-5386
45	1 PAIR	114-5387
46	1 PAIR	114-5388
47	1 PAIR	114-5389
48	1 PAIR	114-5390

Safety shoes, clogs, Safeway, Palma, L710



These anti-static clogs are made from Texfiber upper and a monodensity PU sole, resistant to oils and hydrocarbons.

- Antibacterial fabric lining
- Anti-slip sole
- Shock absorber heel
- Synthetic toecap (200 J)
- Machine washable up to 40 °C

Colour: White

EN ISO 20347:2004; SB, E, A, FO, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5751
36	1 PAIR	114-5752
37	1 PAIR	114-5753
38	1 PAIR	114-5754
39	1 PAIR	114-5755
40	1 PAIR	114-5756
41	1 PAIR	114-5757
42	1 PAIR	114-5758
43	1 PAIR	114-5759
44	1 PAIR	114-5760
45	1 PAIR	114-5761
46	1 PAIR	114-5762
47	1 PAIR	114-5763



ESD safety shoes, clogs, Safeway, E111/E113



ESD shoe made from perforated breathable Texfiber, a removable belt and a monodensity PU sole resistant to oils and fuels.

- Breathable fabric lining
- Anti-slip sole
- Shock absorption in heel
- Protective toecap made from steel (200 J)
- Machine washable at 40 °C

Colour: White or black

EN 61340-5-1 (ESD), EN ISO 20347:2004; SB, EA, FO, SRC

Shoe size	Pk	Cat. No.
White		
35	1 PAIR	114-5647
36	1 PAIR	114-5648
37	1 PAIR	114-5649
38	1 PAIR	114-5650
39	1 PAIR	114-5651
40	1 PAIR	114-5652
41	1 PAIR	114-5653
42	1 PAIR	114-5654
43	1 PAIR	114-5655
44	1 PAIR	114-5656
45	1 PAIR	114-5657
46	1 PAIR	114-5658
47	1 PAIR	114-5659
Black		
35	1 PAIR	114-5660
36	1 PAIR	114-5661
37	1 PAIR	114-5662
38	1 PAIR	114-5663
39	1 PAIR	114-5664
40	1 PAIR	114-5665
41	1 PAIR	114-5666
42	1 PAIR	114-5667
43	1 PAIR	114-5668
44	1 PAIR	114-5669
45	1 PAIR	114-5670
46	1 PAIR	114-5671
47	1 PAIR	114-5672

Safety shoes, slip-on, Safeway, Elba, L322



Anti-static safety shoe made from breathable texfiber upper and a monodensity PU sole, resistant to oils and hydrocarbons.

- Bacterial wall lining
- Shock absorber heel
- Synthetic toecap resistant to 200 J
- Machine washable up to 40 °C

Colour: White

EN ISO 20345:2004; S2, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5725
36	1 PAIR	114-5726
37	1 PAIR	114-5727
38	1 PAIR	114-5728
39	1 PAIR	114-5729
40	1 PAIR	114-5730
41	1 PAIR	114-5731
42	1 PAIR	114-5732
43	1 PAIR	114-5733
44	1 PAIR	114-5734
45	1 PAIR	114-5735
46	1 PAIR	114-5736
47	1 PAIR	114-5737

Safety shoes, slip-on, Safeway, Elba, L332



These anti-static safety shoes are made from a breathable waterproof Microsafe upper and a monodensity PU sole, resistant to oils and hydrocarbons.

- Bacterial wall lining
- Shock absorber heel
- Synthetic toecap resistant to 200 J
- Puncture resistant midsole
- Machine washable up to 40 °C

Colour: White

EN ISO 20345:2004; S3, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	114-5738
36	1 PAIR	114-5739
37	1 PAIR	114-5740
38	1 PAIR	114-5741
39	1 PAIR	114-5742
40	1 PAIR	114-5743
41	1 PAIR	114-5744
42	1 PAIR	114-5745
43	1 PAIR	114-5746
44	1 PAIR	114-5747
45	1 PAIR	114-5748
46	1 PAIR	114-5749
47	1 PAIR	114-5750

Safety boots, pull-on, Safeway, Euro Whites, S504



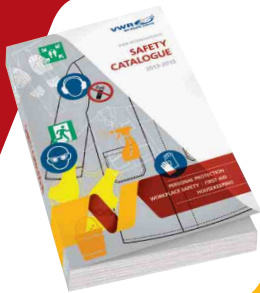
Anti-static boot made from waterproof PVC/ nitrile rubber upper and a PVC/ nitrile rubber sole particularly resistant to oils, animals fats and moderately acid substances.

- Shock absorber heel
- Anti-slip sole
- Protective toecap made from steel (200 J)

Colour: White

EN ISO 20345:2004; S4

Shoe size	Pk	Cat. No.
36	1 PAIR	114-5060
37	1 PAIR	114-5059
38	1 PAIR	114-5058
39	1 PAIR	114-5057
40	1 PAIR	114-5056
41	1 PAIR	114-5055
42	1 PAIR	114-5054
43	1 PAIR	114-5053
44	1 PAIR	114-5052
45	1 PAIR	114-5051
46	1 PAIR	114-5050
47	1 PAIR	114-5049



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WIPES AND SWABS

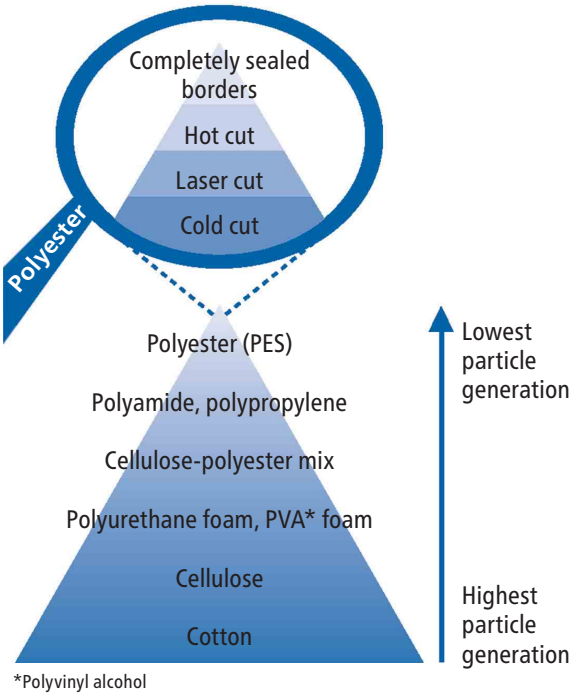
Dry wipes	120
Pre-wetted wipes	131
Sterile wipes	135
Special accessories	141
Sponges and foam wipes	142
Swabs	144
Sterile swabs	156

CLEANROOM WIPES AND SWABS

Cleanroom wipes are amongst the most important consumables in cleanroom and controlled environments. They are integral to a complex cleaning process which removes contaminants generally invisible to the naked eye, and support the maintenance of good basic hygiene together with a clean visual impression.

To ensure efficient cleaning, cleanroom wipes must be able to absorb a wide range of surface contaminants in the shortest possible time, and without themselves distributing further pollution in the form of particles, fibres, ions or microbiological contaminants.

Because cleanroom requirements vary widely, selected wipes must be appropriate to the application. Various materials and wipe structures have a major effect on their technical and functional performance.



Wipe plans: We support you in the choice of suitable wipes for your application.

Cleanroom wipes and swabs

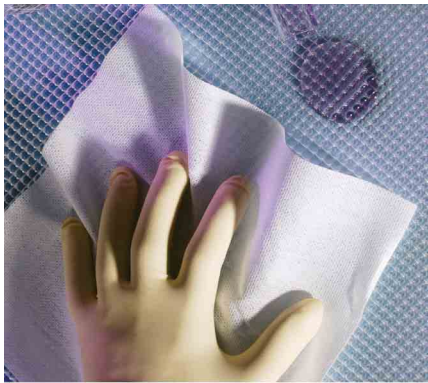
Cleanroom wipes are amongst the most important consumables in the cleanroom and controlled environments. They are integral to a complex cleaning process which removes contaminants generally invisible to the naked eye and support the maintenance of good basic hygiene together with a clean visual impression.

To ensure efficient cleaning, the cleanroom wipes must be able to absorb a wide range of surface contaminants in the shortest possible time without themselves distributing further pollution in the form of particles, fibres, ions or microbiological contaminants.

Because cleanroom requirements vary widely, the selected wipes must be appropriate to the application. The various materials and structures of the wipes have a major effect on their technical and functional performance.



Cleanroom wipes, Spec-Wipe® 3E



Durable, non woven wipes, made of 46% polyester and 54% cellulose.

- Hydroentangled: Yields a durable wipe which produces less particulation than some other non woven methods
- Hydroentangled without the use of chemicals: Reduces ionic contamination
- Lightweight polyester/cellulose combination: Economical and sorbent
- Creped fabric: Provides improved softness and bulk

Colour: White

Model	Spec-Wipe® 3E
Absorbency - extrinsic (ml/m²)	283
Absorbency - intrinsic (ml/g)	5,43
Absorbency - rate (s)	1
Basis weight (g/m²)	52
Extractables - using deionised water (g/m²)	0,025
Extractables - using isopropyl alcohol (g/m²)	0,020
Fibres (>100 µm) (×10³/m²)	44
Ions - chloride (ppm)	9,4
Ions - sodium (ppm)	8,3
Particle generation (>=0.5 µm) (×10⁶/m²)	58,2

LxW (mm)	Packed	Pk	Cat. No.
229x229	300 per bag	300	115-0597
305x305	150 per bag	150	115-0598



Cleanroom wipes, non woven, Spec-Wipe® 3



Suitable for use in Class 100, ISO 5 cleanrooms.

Designed for cleaning laminar flow benches, cleanroom surfaces, quartzware and general process equipment. Appropriate for electronics, pharmaceutical, biotechnology, chemical and petroleum, environmental and education industries. Non textured.

- 45% polyester, 55% cellulose
- Re-sealable pouches maintain product integrity and preserve cleanliness
- Hydroentangled without using chemicals, reduces ionic contamination

Colour: White

Model	Spec-Wipe® 3
Absorbency - extrinsic (ml/m²)	335
Absorbency - intrinsic (ml/g)	4,82
Absorbency - rate (s)	1
Basis weight (g/m²)	67
Extractables - using deionised water (g/m²)	0,056
Extractables - using isopropyl alcohol (g/m²)	0,015
Fibres (>100 µm) (×10³/m²)	14,8
Ions - chloride (ppm)	7,8
Ions - sodium (ppm)	11,2
Particle generation - 0.5-5 µm (×10⁶/m²)	17,1

Description	LxW (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 3	229x229	300/bag	300	115-0031
Spec-Wipe® 3	305x305	150/bag	150	115-0032



Cleanroom wipes, non woven, Spec-Wipe® 5



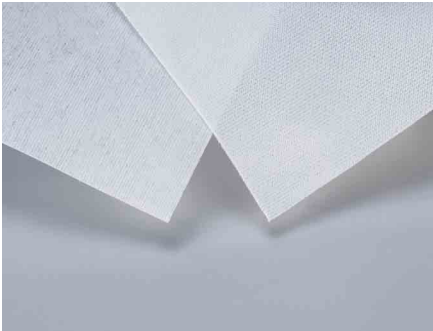
- Suitable for use in Class 100, ISO 5 cleanrooms.
- Treated 45% polyester/55% cellulose non woven wipes. Ideal for cleaning of surfaces and laminar flow benches, absorbing spills of water and most common solvents and general all-purpose cleaning.
- Polyester/cellulose combination, improves absorbency
 - Hydroentangled giving a durable wipe with less particulation
 - Durable wipe that produces less particulation than some other non woven methods
 - Specially treated to reduce particles
- Colour: White

Model	Spec-Wipe® 5
Absorbency - extrinsic (ml/m²)	264
Absorbency - intrinsic (ml/g)	3,93
Absorbency - rate (s)	1
Basis weight (g/m²)	67
Extractables - using deionised water (g/m²)	0,0207
Extractables - using isopropyl alcohol (g/m²)	0,0647
Fibres (>100 µm) (×10³/m²)	27,1
Ions - chloride (ppm)	47,81
Ions - sodium (ppm)	67,21
Particle generation (>=0.5 µm) (×10⁶/m²)	14,3

L×W (mm)	Packed	Pk	Cat. No.
229×229	300 per bag	300	115-0041



Cleanroom wipes



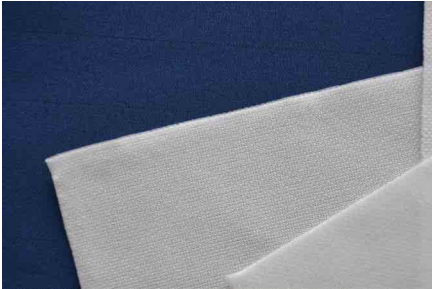
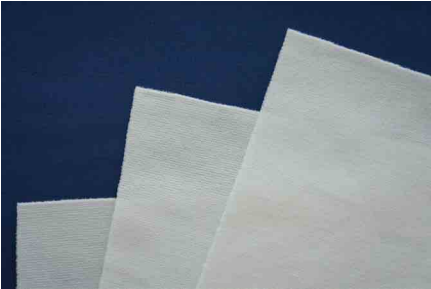
- Suitable for use in Class 1, ISO 3, M1.5 environments.
- These cleanroom wipes are made from 100% virgin grade, continuous filament polyester in a double knit, no-run interlock pattern to provide maximum cleanliness and absorbency. Designed for cleaning surfaces and controlling spills in ISO Class 3 or higher cleanroom environments, these durable wipes resist fibre release and abrasion under rigorous use, even when wiping rough surfaces.
- Laser cut with sealed edges
 - Minimum particles, fibres, extractables and ions: Ideal for environments that demand low levels of contaminants
 - Ultra-clean, highly absorbent and durable
 - Economical
 - Cleanroom laundered and packaged (ISO Class 4)
- Colour: White

Absorbency - extrinsic (ml/m²)	350
Absorbency - intrinsic (ml/g)	2,5
Absorbency - rate (s)	<1
Basis weight (g/m²)	135 ±5
Extractables - using deionised water (g/m²)	<0,01
Extractables - using isopropyl alcohol (g/m²)	<0,02
Fibres (>100 µm) (m²)	400
Ions - chloride (ppm)	<0,05
Ions - potassium (ppm)	<0,02
Ions - sodium (ppm)	<0,21
Particle generation (>=0.5 µm) (×10⁶/m²)	4,2

L×W (mm)	Packed	Pk	Cat. No.
229×229	150/bag	150	115-0660
305×305	150/bag	150	115-0661

All test results obtained according to Institute for Environmental Sciences and Technology standard IEST-RP-CC004.3. The data shown in this entry represent typical values at the time of publication.

Cleanroom wipes, B'Wipes



1000 series – absorbent non woven wipe for use in ISO 5 - 6 cleanrooms

- Non woven wipe, made of hydroentangled 55% cellulose and 45% polyester (68 g/m²)
- High absorbency, strong and durable
- Works well with IPA and other solvents
- Ideal for spill control and general purpose wiping

3000 series – polyester wipe for use in ISO 5 cleanrooms

- Single knit polyester wipe, with knife cut edges (130 g/m²)
- Laundered for better cleanliness
- Good wiping efficiency and abrasion resistance
- Ideal for general cleaning of all types of surfaces
- Available in an economical light weight version for floors

4000 series – polyester sealed-edge wipe for use in ISO 4 cleanrooms

- Single knit polyester wipe, with sealed edges (150 g/m²)
- Laundered and with sealed edges, for superior cleanliness
- Good mechanical resistance and absorption capacity
- Ideal for cleaning and disinfecting surfaces in critical environments

5000 series – polyester sealed-border wipe for use in ISO 3 cleanrooms

- Double knit polyester wipe, with sealed borders (135 g/m²)
- Laundered and with sealed borders, for low release of fibres even under mechanical stress
- Good mechanical resistance and absorption capacity
- Ideal for cleaning heavy soils and disinfecting surfaces in critical areas

6000 series – double ply polyester sealed-border wipe for use in ISO 3 cleanrooms

- Quilted polyester wipe, constructed from 2 plies, with sealed borders
- Laundered and with sealed borders, for excellent cleanliness
- Two plies quilted, for extreme absorption
- Ideal for spill control in critical areas, and for applying a cleaning/disinfecting solution over a large surface

6000E series – double ply polyester sealed-edge wipe for use in ISO 4 cleanrooms

- Economical version of the series 6000, especially for floor cleaning
- Two plies quilted for superior absorption
- Ideal for applying a large quantity of cleaning/disinfecting solution on the floors, maximising the number of square meters covered with a single wipe

7000 series – microfibre sealed-edge wipe for use in ISO 3 cleanrooms

- Microfibre polyester/nylon wipe, with sealed edges (165 g/m²)
- Laundered and with sealed edges, for excellent cleanliness
- Very fine microfibre filaments, densely knitted, greatly increase the quantity of contamination picked up by the wipe, even when dry
- Reduces the risk of scratching sensitive surfaces, such as optics
- Ideal for cleaning sensitive surfaces, or when wet wiping is not an option

Description	LxW (mm)	Packed	Pk	Cat. No.
Series 1000 wipes	230x230	Stacked, 2x150	300	115-1825
Series 1000 wipes	300x300	Stacked, 1x150	150	115-1803
Series 1000 floor wipes	250x600	Stacked, 1x75	75	115-1804
Series 3000 wipes	230x230	Stacked, 1x150	150	115-1806
Series 3000 wipes	230x230	Bulk, 1x150	150	115-1826
Series 3000 floor wipes	250x580	Stacked, 1x75	75	115-1805
Series 4000 wipes	230x230	Stacked, 2x75	150	115-1827
Series 4000 wipes	300x300	Stacked, 1x75	75	115-1828
Series 6000 wipes	230x230	Stacked, 2x50	100	115-1821
Series 6000 wipes	230x230	Bulk, 2x50	100	115-1823
Series 6000E floor wipes	250x600	Stacked, 1x50	50	115-1830
Series 7000 wipes	150x150	Stacked, 10x10	100	115-1824
Series 7000 wipes	230x230	Stacked, 10x10	100	115-1829

Cleanroom wipes, Amplitude™ Epsilon™

Contec



Suitable for use in Class 1000, ISO 6, M4.5 and above cleanrooms.

This wipe is made of a special grade blue cellulose and polyester, featuring improved cleanliness and excellent sorbency. The cellulose uses a dye fast colour to minimise colour bleeding. The wipe is therefore ideal for wet areas requiring spill pickup and cleanup, as well as for use as absorbent low particle work surface material.

- Dye-fast blue colour allows for differentiation
- Low levels of particles and extractables
- Strong and durable

Colour: Blue

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Amplitude™ Epsilon™
Absorbency (water) - extrinsic (ml/m²)	288
Absorbency - intrinsic (ml/g)	4,0
Absorbency - rate (s)	1,0
Basis weight (g/m²)	73
Extractables - using deionised water (g/m²)	0,014
Extractables - using isopropanol (g/m²)	0,009
Fibres (>100 µm) (×10³/m²)	24,5
Ions - chloride (ppm)	12,6
Ions - sodium (ppm)	8,0
Particle generation (>=0.5 µm) (×10⁶/m²)	23,1

L×W (mm)	Packed	Pk	Cat. No.
229×229	300 wipes/bag	300	115-1853

Cleanroom wipes, multipurpose, Amplitude™ EcoCloth™

Contec



Suitable for use in Class 1000, ISO 6 environments.

Absorbent, non woven cellulose/polyester wipes, feature enhanced sorbency while being economical due to their light weight. Recommended for general purpose cleaning in biotech, pharmaceutical, semiconductor, electronics, medical device and printed circuit board industries. Ideal for wiping products prior to introduction into a cleanroom, or wiping and absorbing spills.

- Lightweight, highly sorbent wipe, designed for non abrasive applications
- Strong and durable hydroentangled fabric with good solvent compatibility
- Low levels of particles and extractables

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Wipes are double packaged to preserve product integrity.

Model	Amplitude™ EcoCloth™
Absorbency (ml/m²)	344
Basis weight (g/m²)	57
Extractables - using deionised water (g/m²)	0,026
Extractables - using isopropanol (g/m²)	0,000
Fibres (>100 µm/cm²)	2,94
Ions - chloride (ppm)	1,8
Ions - sodium (ppm)	15,5
Particle generation (>=0.5 µm) (×10⁶/m²)	13,5
Specific absorbency (cc/g)	6,04

L×W (mm)	Packed	Pk	Cat. No.
102×102	1200 wipes/bag	1.200	115-0569
152×152	300 wipes/bag	300	115-0608
229×229	300 wipes/bag	300	115-0570
305×305	150 wipes/bag	150	115-0571
460×460	75 wipes/bag	75	115-0572

Cleanroom wipes, multipurpose, Amplitude™ Sigma™
Contec



Suitable for use in Class 1000, ISO 6 environments.

Non woven cellulose/polyester hydroentangled wipes made from 55% cellulose and 45% polyester, highly sorbent with excellent durability and good cleanliness. Ideal for non abrasive applications, general purpose cleaning or spillage pick up in biotech, pharmaceutical, semiconductor, electronics, medical device and printed circuit board industries.

- Strong and durable, wet or dry
- Low particle and extractables levels
- Also available pre-saturated as PROSAT® and SATWipes® wipes

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Amplitude™ Sigma™
Absorbency (ml/m²)	335
Basis weight (g/m²)	66
Extractables - using deionised water (g/m²)	0,056
Extractables - using isopropanol (g/m²)	0,015
Fibres (>100 µm/cm²)	1,48
Ions - chloride (ppm)	7,8
Ions - sodium (ppm)	11,2
Particle generation (>=0.5 µm) (×10⁶/m²)	17,1
Specific absorbency (cc/g)	6,04

L×W (mm)	Packed	Pk	Cat. No.
229×229	300 wipes/bag	300	115-0573
305×305	150 wipes/bag	150	115-0574
457×457	75 wipes/bag	75	115-0609

Cleanroom wipes, Amplitude™ Helix™
Contec



The wipe consists of a meltblown polypropylene construction with fine continuous filaments that provide improved cleanliness. Polypropylene has excellent acid and chemical resistance making it ideal for use in many laboratory applications, e.g. biotech, pharmaceutical, electronics, medical device, precision instrument and semiconductor industries.

- Low levels of particles and extractables
- High water and solvent sorbent capacity and rate
- Resistant to acids and chemicals

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Amplitude™ Helix™
Absorbency (water) - extrinsic (ml/m²)	250
Absorbency - intrinsic (ml/g)	3,7
Absorbency - rate (s)	1,0
Basis weight (g/m²)	67,6
Extractables - using deionised water (g/m²)	0,022
Extractables - using isopropanol (g/m²)	0,242
Fibres (>100 µm) (×10³/m²)	0,07
Ions - chloride (ppm)	1,52
Ions - sodium (ppm)	323
Particle generation (>=0.5 µm) (×10⁶/m²)	25,5

L×W (mm)	Packed	Pk	Cat. No.
229×229	200 wipes/bag, 12 bags/case	2.400	115-1854
305×305	100 wipes/bag, 18 bags/case	1.800	115-1855

Cleanroom wipes, quilted, Amplitude™ Zeta™
Contec



Suitable for use in Class 1000, ISO 6, M4.5 cleanrooms.

Thermally bonded non woven polypropylene and cellulose quilted wipes, two layers of polypropylene trap the cellulose core, which allow this material to be very absorbent, with a high level of cleanliness. Great with acid spills and solvents, Zeta™ is ideal for tray lining and other laboratory area applications.

- Inner core of cellulose sealed between two layers of meltblown polypropylene is highly soprtive
- Strong resistance to acids
- 3 ply quilted pattern allows for segregation by appearance

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Wipes are double packaged to preserve product integrity.

Model	Amplitude™ Zeta™		
Absorbency (ml/m²)	545		
Basis weight (g/m²)	89		
Extractables - using deionised water (g/m²)	0,019		
Extractables - using isopropanol (g/m²)	0,014		
Fibres (>100 µm/cm²)	4,9		
Ions - chloride (ppm)	13,7		
Ions - sodium (ppm)	47,6		
Particle generation (>=0.5 µm) (×10⁶/m²)	111,0		
Specific absorbency (cc/g)	6,1		
L×W (mm)	Packed	Pk	Cat. No.
203×229	150 wipes/bag	150	115-0610
279×305	75 wipes/bag	75	115-0611

Cleanroom wipes, Amplitude™ Delta™
Contec



Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

Made of 100% synthetic fibre and formed using the spunlacing process, this wipe – designed for cleaning delicate optical products such as lenses and mirrors – is exceptionally clean and durable. It has excellent chemical resistance and is therefore ideal for use with solvents. Its open fibre structure provides excellent sorptive capacity.

- Very low levels of particles and extractables
- Strong and durable
- Very soft, non abrasive texture

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Amplitude™ Delta™		
Absorbency - extrinsic (ml/m²)	221		
Absorbency - intrinsic (ml/g)	3,19		
Absorbency - rate (s)	1,0		
Basis weight (g/m²)	69,4		
Extractables - using deionised water (g/m²)	0,055		
Extractables - using isopropanol (g/m²)	0,008		
Fibres (>100 µm) (×10³/m²)	1		
Ions - chloride (ppm)	4,7		
Ions - sodium (ppm)	1,9		
Particle generation (>=0.5 µm) (×10⁶/m²)	16,5		
L×W (mm)	Packed	Pk	Cat. No.
102×102	1200 wipes/bag	1.200	115-1851
152×152	300 wipes/bag	300	115-1852
229×229	300 wipes/bag, 12 bags/case	3.600	115-1850

Wipes, optical grade, Amplitude™ Optic Wipe
Contec



These absorbent non abrasive wipes consist of long staple cellulosic fibres which are wet laid in a paper making process to form an extremely clean sheet. Ideal for delicate cleaning of optical products, drying critical products and for use as a lining for cleanroom surfaces or trays.

- Non woven, long staple fibre construction
- Very low extractables level, moderate particle generation
- Can be used as separating layers between CDs and silicon wafers and for packaging and storage of optical products

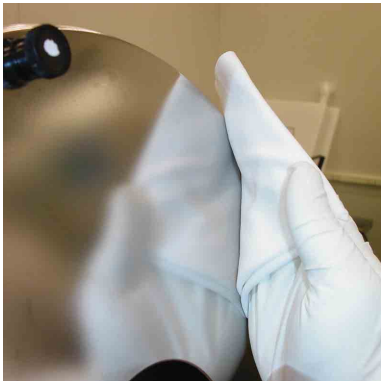
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Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Amplitude™
Absorbency (ml/m²)	79,2
Basis weight (g/m²)	16,6
Extractables - using deionised water (g/m²)	0,0238
Extractables - using isopropanol (g/m²)	0,0110
Ions - sodium (ppm)	199,83
Particle generation (>=0.5 µm) (×10⁶/m²)	42,42
Specific absorbency (cc/g)	4,79

L×W (mm)	Packed	Pk	Cat. No.
229×229	500 wipes/bag	500	115-0579
440×440	500 wipes/bag	500	115-1857

Cleanroom wipes, Anticon® White Magic™
Contec



Recommended for use in ISO Class 4 - 5 cleanroom environments.

These wipes are made from 100% continuous filament polyester with an interlock construction. The technology used in the manufacture of this wipe maximises the sorbency capacity. Ideal for critical applications that require high sorbency, for example in electronics applications.

- Low sub micron particles and fibre counts minimise the risk of contamination
- Special sorbency technology reduces the number of wipes required
- Specially processed for superior cleanliness and sorbency
- Cleanroom laundered

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

L×W (mm)	Packed	Pk	Cat. No.
230×230	150 wipes/bag, 14 bags/case	2.100	115-1849

Cleanroom wipes, Anticon® Gold Sorb™
Contec



Suitable for use in Class 1, ISO 3, M1.5 cleanrooms.

These wipes combine the performance of a microfibre yarn with that of a polyester yarn to create a wipe with superior wiping and sorptive characteristics. The wipes have no abrasive borders, making them particularly suitable for cleaning sensitive components such as optics.

- Microfibre provides superior residue and particle removal even when dry
- Sealed edges to reduce particle and fibre generation
- High sorptive capacity and fast absorption rate for superior spill control

Colour: White

Tested in accordance with the IEST Recommended Practices for the Evaluation of Wiping Materials for Critical Environments. Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Gold Sorb™
Absorbency - extrinsic (ml/m²)	542
Absorbency - intrinsic (ml/g)	3,65
Absorbency - rate (s)	<1
Basis weight (g/m²)	148
Extractables - using deionised water (g/m²)	0,004
Extractables - using isopropyl alcohol (g/m²)	0,008
Fibres (>100 µm, biaxial) (×10³/m²)	0,157
Ions - chloride (ppm)	0,067
Ions - sodium (ppm)	0,204
Particle generation (>=0.5 µm) (×10⁶/m²)	9,8

Continued from previous page

LxW (mm)	Packed	Pk	Cat. No.
229x229	150 wipes/bag (2 inner bags of 75); 8 bags/case	1.200	115-1848
229x229	Bulk, 150 wipes/bag (2 inner bags of 75)	150	115-0440

Cleanroom wipes, TechniCloth® II

ITW Texwipe



Suitable for use in Class 1000, ISO 6, M4.5 environments.

TechniCloth II wipes are made from a hydroentangled, non woven blend of 55% cellulose and 45% polyester. This fabric blend combines the highly absorbent properties of a natural fibre with the cleanliness and strength of a synthetic wipe. TechniCloth II features proprietary ULP (ultra low particulate) treatment, giving it significantly lower particle generation than TechniCloth.

- Reduced particle generation with ULP
- Provide extreme durability and high absorbency with unique cellulose/polyester blend

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	TechniCloth® II
Absorbency (water) (ml/m²)	260
Absorbency - rate (s)	1,2
Basis weight (g/m²)	67
Extractables - using deionised water (g/m²)	0,02
Extractables - using isopropyl alcohol (g/m²)	
Fibres (>100 µm) (m²)	40000
Ions - chloride (ppm)	24
Ions - potassium (ppm)	5
Ions - sodium (ppm)	40
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	15
Particle generation (ASTM E2090) - 5-100 µm (m²)	208000

Description	LxW (mm)	Packed	Pk	Cat. No.
TX1109	230x230	300 wipes/bag	300	115-0462
TX1112	310x310	150 wipes/bag	150	115-0463
TX1118	460x460	75 wipes/bag	75	115-0464



Cleanroom wipes, TexTra™

ITW Texwipe



Suitable for use in Class 100, ISO 5, M3.5 environments.

Absorbent, single ply, 100% continuous filament polyester wipes, feature enhanced sorbency. Recommended for use with cleaning and disinfectant solutions, such as bleaches, phenols and quaternary ammonium compounds. Ideal for vigorous wiping, absorbing spills and device or component protection.

- Economical, heavyweight, highly sorbent wipe, designed for non abrasive applications
- Strong and durable fabric avoids snags, with good solvent, cleaning solution and disinfectant compatibility
- Absorbency and liquid holding capacity of a two ply wipe, enables these wipes to be used in place of two ply wipes

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Laundered and packed in a Class 100, ISO 5, M3.5 cleanroom. In solvent-safe Bag-Within-A-Bag packaging.

Model	TexTra™
Absorbency (ml/m²)	600
Absorbency - rate (s)	0,3
Basis weight (g/m²)	233
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,04
Fibres (>100 µm) (m²)	500
Ions - chloride (ppm)	0,10
Ions - potassium (ppm)	0,15
Ions - sodium (ppm)	
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	15
Particle generation (ASTM E2090) - 5-100 µm (×10⁵/m²)	1,82

Description	LxW (mm)	Packed	Pk	Cat. No.
TX2424	310x310	100 wipes/bag, 2 inner bags of 50 wipes, 8 bags/case	800	115-0589



Cleanroom wipes, ThermoSeal™ 60
ITW Texwipe



ThermoSeal™ wipes are hot cut polyester wipes for all-purpose cleaning in critical environments. Ideal for cleaning medical devices, displays and products in the semiconductor and microelectronics area.

- Thermally sealed edges to minimise fibre generation
- Excellent absorbency, good abrasion resistance
- Chemically compatible with standard solvents and alcohols
- Autoclavable

Colour: white

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Solvent-safe Bag-Within-A-Bag® cleanroom packaging. Laundered and packaged in an ISO Class 4 cleanroom environment.

Model	ThermoSeal™ 60
Absorbency (water) (ml/m²)	350
Absorbency - rate (s)	0,5
Basis weight (g/m²)	122
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,03
Fibres (>100 µm) (m²)	600
Ions - chloride (ppm)	0,06
Ions - potassium (ppm)	0,12
Ions - sodium (ppm)	0,3
Particle generation - 0.5-5 µm (×10⁶/m²)	3,1

Description	LxW (mm)	Packed	Pk	Cat. No.
TX2064	100×100	300 wipes/bag (2 inner bags of 150), 20 bags/case	6.000	115-1887
TX2068B	180×200	Bulk, 200 wipes/bag	200	115-1888
TX2069B	230×230	Bulk, 150 wipes/bag	150	115-1889
TX2069	230×230	150 wipes/bag (2 inner bags of 75)	150	115-0466

Cleanroom wipes, Vertex®
ITW Texwipe



These 100% polyester double knit wipes are designed to provide the most suitable combination of sorption capacity with maximum abrasion resistance, ideal for use on surfaces with sharp edges. They are made in the USA on Texwipe’s revolutionary Vertex® manufacturing process, which cleans, converts, and packages wipes in an integrated, hands-free micro environment.

- Vertex® system incorporates real time process monitoring and alarms for critical parameters to produce the most consistent cleanroom wipes
- Wipe can be used on rough surfaces or sharp edges minimising particle release from catching on the surface
- Wipes do not carry cytotoxic leachables and are non pyrogenic

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Vertex®
Absorbency (water) (ml/m²)	350
Absorbency - rate (s)	0,3
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,02
Fibres (>100 µm) (m²)	290
Ions - calcium (ppm)	<0,05
Ions - chloride (ppm)	<0,02
Ions - magnesium (ppm)	
Ions - potassium (ppm)	<0,03
Ions - sodium (ppm)	<0,08
Particle generation - 0.5-5 µm (×10⁶/m²)	2,1
Particle generation - 5-100 µm (m²)	48600

Description	LxW (mm)	Packed	Pk	Cat. No.
TX22	300×300	100 per bag	100	115-1415
TX29	230×230	150 per bag	150	115-1414

Cleanroom wipes, high sorption, Vertex®
ITW Texwipe



These 100% continuous filament, polyester knit fabric wipes with sealed edges offer a very soft feel and high sorptive capacity. They are made in the USA from virgin stock and processed on Texwipe's Vertex™ manufacturing system. The Vertex™ manufacturing process cleans, converts, and packages wipes in an integrated, hands-free micro environment. Wipes are manufactured in an ISO Class 3 environment with a small physical footprint which provides for a more sustainable process.

- Untouched by human hands until you open the bag: Vertex™ wipes carry the highest level of assurance of contamination control among cleanroom wipes
- Unique fabric structure: High sorption capacity
- Soft feel for use with delicate surfaces or applications
- Wipes do not carry cytotoxic leachables and are non pyrogenic
- High performance in a variety of demanding applications

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: 100 or 150 wipes/bag.

Model	Vertex®
Absorbency (water) (ml/m²)	450
Absorbency - rate (s)	0,3
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,02
Fibres (>100 µm) (m²)	200
Ions - calcium (ppm)	<0,10
Ions - chloride (ppm)	<0,05
Ions - magnesium (ppm)	<0,01
Ions - potassium (ppm)	None detected
Ions - sodium (ppm)	<0,17
Particle generation - 0.5-5 µm (×10⁶/m²)	3,0

Description	LxW (mm)	Packed	Pk	Cat. No.
TX42	300x300	100/bag	100	115-1407
TX49	230x230	150/bag	150	115-1405

Cleanroom wipes, microdenier, Vertex®
ITW Texwipe



This 100% polyester double knit microdenier wipe made on Texwipe's Vertex process, is ideal for wiping surfaces that are most susceptible to scratching. The yarn has four times the number of filaments and twice the surface area in the yarn bundle compared to standard polyester wipes which increases wiping efficiency and softness.

- Tight fabric provides less chance of catching on a surface and breaking yarn filaments
- Very soft: Ideal for sensitive surfaces
- Can be used with bleach-based cleaners
- Does not leave behind a barrier layer and is able to capture more particles within the fibre bundle

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Vertex®
Absorbency (water) (ml/m²)	350
Absorbency - rate (s)	0,3
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,07
Fibres (>100 µm) (m²)	520
Ions - calcium (ppm)	<0,40
Ions - chloride (ppm)	<0,10
Ions - magnesium (ppm)	<0,04
Ions - potassium (ppm)	<0,08
Ions - sodium (ppm)	<0,30
Particle generation - 0.5-5 µm (×10⁶/m²)	4,8
Particle generation - 5-100 µm (m²)	130000

Description	LxW (mm)	Packed	Pk	Cat. No.
TX59	230x230	100 wipes/bag	100	115-1403

Cleanroom wipes, pre-saturated, Spec-Wipe[®] 3



Suitable for use in class 100, ISO 5, M3.5 cleanrooms.

These non woven wipes made of 45% polyester and 55% cellulose are designed for cleaning laminar flow benches, cleanroom surfaces, and general process equipment. The wipe is pre-saturated with semiconductor grade solvent (70% IPA / 30% DIW) for safe storage, mixing, and dispensing.

- Re-sealable pouches maintain product integrity, preserve cleanliness and saturation levels
- Pre-saturated wipes reduce solvent use, chemical blending and waste
- Hydroentangled without using chemicals, reduces ionic contamination

Colour: White

Model	Spec-Wipe [®] 3			
Absorbency - rate (s)	1			
Basis weight (g/m ²)	67			
Extractables - using deionised water (g/m ²)	0,056			
Extractables - using isopropyl alcohol (g/m ²)	0,015			
Fibres (>100 µm) (×10 ³ /m ²)	14,8			
Ions - chloride (ppm)	7,8			
Ions - sodium (ppm)	11,2			

Description	LxW (mm)	Packed	Pk	Cat. No.
Spec-Wipe [®] 3, saturated with 70% IPA, 30% deionised water	229×229	75/bag	75	115-0034

Properties above reflect the data for the wipe in an unsaturated state. Wipes are manufactured using USP grade IPA (isopropanol) filtered to 5 µm.

Cleanroom wipes, pre-saturated, SATWipes[®] C1
Contec



Suitable for use in Class 1000, ISO 6, M4.5 cleanrooms.

Non woven hydroentangled polyester/cellulose blended wipes pre-saturated with 100% isopropanol (IPA) or with 70% IPA/30% DI water. Suitable for less critical applications. Ideal for general purpose cleaning and surface preparation.

- For use prior to cleanroom entry, wiping process tools and other equipment
- Dispensed from centre-pull roll in a reusable canister
- Strong and durable
- Low levels of particles and extractable contaminants
- Each package is individually lot numbered

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Delivery information: Supplied 100 wipes/roll, 12 rolls/case, with a reusable canister.

Model	SATWipes [®] C1, 100% IPA		SATWipes [®] C1, 70% IPA/30% DIW	
Basis weight (g/m ²)	66		68	
Extractables - using deionised water (g/m ²)			0,056	
Extractables - using isopropanol (g/m ²)			0,015	
Fibres (>100 µm) (×10 ³ /m ²)	23		14,8	
Particle generation (>=0.5 µm) (×10 ⁶ /m ²)	20,0		17,1	

Description	LxW (mm)	Packed	Pk	Cat. No.
SATWipes [®] C1, pre-saturated with 100% IPA	152×229	100 wipes per roll, 12 refills per case, 1 canister per case	1.200	115-1870
SATWipes [®] C1, pre-saturated with 70% IPA/30% DIW	152×229	100 wipes per roll, 12 refills per case, 1 canister per case	1.200	115-1871

Cleanroom wipes, pre-saturated, SATWipes® C3
Contec



Suitable for use in Class 1000, ISO 6, M4.5 cleanrooms.

The SATWipes are made of pure non woven polyester that is hydraulically entangled creating a soft, durable and clean wipe. The saturation of either alcohol/deionised water or 100% alcohol provides a safe and mild cleaning solution. They are excellent for less critical applications, cleaning of process tools and other equipment and surface preparation.

- Convenient and re-usable pop-up dispenser
- Consistent solvent application and use: Up to 35% reduction in solvent use
- Reduces solvent handling: Increased safety

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	SATWipes® C3
Basis weight (g/m²)	69
Extractables - using deionised water (g/m²)	0,055
Extractables - using isopropanol (g/m²)	0,008
Fibres (>100 µm) (×10³/m²)	1,0
Ions - chloride (ppm)	4,7
Ions - sodium (ppm)	1,9
Particle generation (>=0.5 µm) (×10⁶/m²)	16,5

Description	LxW (mm)	Packed	Pk	Cat. No.
SATWipes® C3, pre-saturated with 100% IPA, canister with snap-close lid	229x152	100 wipes per roll, 12 rolls per case, 1 canister per case	1.200	115-0379
SATWipes® C3, pre-saturated with 70% IPA/30% DIW, refills	152x229	100 wipes per roll, 18 refills per case	1.800	115-1873
SATWipes® C3, SATWipes® C3, pre-saturated with 70% IPA/30% DIW, canister with snap-close lid	152x229	100 wipes per roll, 12 rolls per case, 1 canister per case	1.200	115-1872

Description	For	Pk	Cat. No.
Accessories			
Canister with snap-close lid	rolls, 152x229 mm	10	115-1874

Cleanroom wipes, pre-saturated, PROSAT®
Contec



Suitable for use in Class 100, ISO 5, M3,5 environments.

These non woven wipes are made of meltblown polypropylene pre-saturated with 70% semiconductor-grade isopropanol and 30% deionised water. They are ideal for general surface cleaning and for wiping process tools and other equipment before entering the cleanroom.

- Very low levels of sodium and other ions
- Help to reduce solvent usage and VOC emissions
- Resealable pouch preserves cleanliness and solvent saturation levels

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Packed in a resealable pouch. Pouches are individually lot-numbered for traceability.

Model	PROSAT®
Basis weight (g/m²)	36
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropanol (g/m²)	0,07
Fibres (>100 µm) (×10³/m²)	6,3
Ions - chloride (ppm)	5,0
Ions - sodium (ppm)	3,0
Particle generation (>=0.5 µm) (×10⁶/m²)	5,1

Description	LxW (mm)	Packed	Pk	Cat. No.
PROSAT® 850	203x203	50 per pouch, 50 pouches per case	2.500	115-0269
PROSAT® 911	279x229	30 per bag	30	115-0270
PROSAT® LPP-7030	406x432	50 per pouch, 15 pouches per case	750	115-1866
PROSAT® PP0043	229x279	50 per pouch	50	115-1868

Cleanroom wipes, pre-saturated, PROSAT® Polynit Heatseal
Contec



This wipe is made from filament polyester that is laser cut to bond the fibres at the edges of the wipe. This creates a very clean, non abrasive edge that allows full utilisation of the wipe surface. Pre-saturated with 5% semi grade IPA and 95% DIW.

- Wipe is exceptionally low in particles and extractable residue
- Presaturation greatly reduces solvent usage and maximises process control and consistency
- Abrasion and chemical resistant
- Ideal for general purpose and critical cleaning

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Polynit Heatseal
Basis weight (g/m²)	140
Fibres (>100 µm) (×10³/m²)	0,150
Ions - chloride (ppm)	0,06
Ions - sodium (ppm)	0,17
Particle generation (>=0.5 µm) (×10⁶/m²)	2,2

L×W (mm)	Packed	Pk	Cat. No.
230×230	50 wipes/bag, 16 bags/case	800	115-1869

Cleanroom wipes, pre-saturated, PROSAT® Polynit Heatseal
Contec



Suitable for ISO Class 3 or 4 cleanrooms environments.

Pre-saturated knitted polyester wipes made with Polynit Heatseal material. The wipes are pre-saturated with 70% IPA and 30% DI Water. They are therefore ideal for cleanroom applications, surface preparation and critical manufacturing processes.

- Soft, non abrasive textured wipe cleans without scratching
- Low in both particles and extractables
- Resealable pouch preserves cleanliness and saturation levels

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Model	Polynit Heatseal
Basis weight (g/m²)	140
Fibres (>100 µm) (×10³/m²)	0,149
Ions - chloride (ppm)	0,10
Ions - sodium (ppm)	0,13
Particle generation (>=0.5 µm) (×10⁶/m²)	4,8

L×W (mm)	Packed	Pk	Cat. No.
229×229	30 wipes/bag	30	115-1865



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Cleanroom wipes, pre-saturated, AlphaSat®
ITW Texwipe



These highly sorbent wipes are constructed from 100% continuous filament polyester in a double knit, no-run interlock pattern. The wipes are pre-wetted with 70% IPA and 30% deionised water. Ideal for general wiping, spill control, polishing and cleaning in critical environments (ISO Class 4 - 9).

- Superior strength with low particle generation and low extractable levels
- Laundered cut edge
- Excellent chemical and abrasion resistance

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Solvent-safe, reclosable packaging.

Model	AlphaSat®
Absorbency (ml/m²)	530
Absorbency - rate (s)	0,5
Basis weight (g/m²)	158
Extractables - using deionised water (g/m²)	0,02
Extractables - using isopropyl alcohol (g/m²)	0,04
Ions - chloride (ppm)	0,05
Ions - potassium (ppm)	0,06
Ions - sodium (ppm)	0,22
Particle - 0,5-5 µm	10×10⁶/m²
Particle - Fibres (>100 µm/cm²)	2000

Description	LxW (mm)	Packed	Pk	Cat. No.
TX1034	100×100	200 wipes in a slider bag	200	115-0456
TX1036	150×150	75 wipes in a slider bag	75	115-0457
TX1039	230×230	50 wipes in a slider bag	50	115-0458

Cleanroom wipes, pre-saturated, Vertex®
ITW Texwipe



These 100% continuous filament, polyester knit fabric wipes are made in the USA from virgin stock and processed on Texwipe’s hands-free Vertex® manufacturing system. They are pre-wetted to optimal levels with 70% USP-Grade IPA / 30% DIW. Ideal for cleaning delicate surfaces.

- Soft feel and high sorptive capacity
- Laser edges
- Quarterly microbial testing by Agarose Overlay and Limulus Amebocyte Lysate (LAL) endotoxin testing
- Wipes do not carry cytotoxic leachables and are non pyrogenic

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Manufactured and packaged in an integrated, hands-free micro environment (Vertex®) under ISO Class 3 cleanroom conditions.

Model	Vertex®
Absorbency (ml/m²)	450
Absorbency - rate (s)	0,3
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,02
Fibres (>100 µm) (×10³/m²)	0,2
Ions - calcium (ppm)	<0,10
Ions - chloride (ppm)	<0,05
Ions - magnesium (ppm)	<0,01
Ions - sodium (ppm)	<0,17

Description	LxW (mm)	Packed	Pk	Cat. No.
TX49P	230×230	75 per bag	75	115-1404
TX42P	300×300	50 per bag	50	115-1406



Cleanroom wipes, sterile, SterileSorb™
Contec



- Non woven, hydroentangled polyester/cellulose blend. Ideal for wipe down of products prior to their introduction to the cleanroom.
- Designed for non abrasive applications such as wiping and absorbing spills in the cleanroom
 - Absorbent, durable, and low in extractables
 - Wipes have a SAL (Sterility Assurance Level) of 10⁻⁶

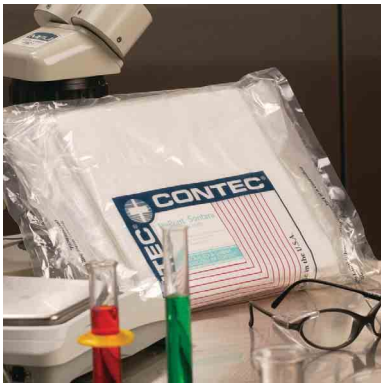
AAMI/ISO 11137 Method 1 Guidelines

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	SterileSorb™		
Absorbency - extrinsic (ml/m²)	281		
Absorbency - intrinsic (ml/g)	4,03		
Absorbency - rate (s)	<1		
Basis weight (g/m²)	70		
Extractables - using deionised water (g/m²)	0,007		
Extractables - using isopropyl alcohol (g/m²)	0,003		
Ions - chloride (ppm)	20,3		
Ions - sodium (ppm)	30,8		
Particle generation (>=0.5 µm) (×10 ⁶ /m²)	21,5		
L×W (mm)	Packed	Pk	Cat. No.
229×229	25 per bag, 6 inner bags/outer bag, 10 outer bags/case	1.500	115-0498
305×305	25 per bag, 6 inner bags/outer bag, 7 outer bags/case	1.050	115-1856



Cleanroom wipes, non pyrogenic, sterile, DuPont™ Sontara®
Contec



Suitable for use in Class 100, ISO 5, M3,5 environments.

DuPont™ Sontara® non pyrogenic wipes are the first sterile non woven wiping products designed for the pharmaceutical, medical device and biotech industries. Made by DuPont, this contamination control fabric incorporates maximum sorptive capacity, particle removal capability and low levels of particulate and extractable contaminants. A unique manufacturing process gives this wipe the greatest level of intrinsic sorbency and a quick rate of sorbency.

- Cellulose-free lyocell (rayon)/polyester blend material
- Sterile wipes are validated 10⁻⁶ SAL per AAMI/ISO 11137:2006 Guidelines
- High water and solvent sorbent capacity and rate
- Unique surface texture provides effective cleaning and particle removal

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Sontara®		
Absorbency - extrinsic (ml/m²)	284		
Absorbency - intrinsic (ml/g)	4,66		
Absorbency - rate (s)	1,0		
Basis weight (g/m²)	61		
Extractables - using deionised water (g/m²)	0,0394		
Extractables - using isopropyl alcohol (g/m²)	0,0016		
Fibres (>100 µm) (×10 ³ /m²)	9,23		
Ions - chloride (ppm)	17,39		
Ions - sodium (ppm)	7,77		
Particle generation (>=0.5 µm) (×10 ⁶ /m²)	12,16		
L×W (mm)	Packed	Pk	Cat. No.
229×229	25 wipes/bag, 4 inner bags/outer bag, 10 outer bags/case	1.000	115-1863
305×305	25 wipes/bag, 4 inner bags/outer bag, 10 outer bags/case	1.000	115-1864



Cleanroom wipes, pre-saturated, sterile, Prosat® Sterile™ Low Endotoxin
Contec



Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

These low endotoxin wipes are made from 100% knitted polyester and pre-saturated with a blend of 70% IPA and 30% Water for Injection (WFI). Suitable for use in the most critical pharmaceutical cleanrooms.

- Laser-sealed edges
- Good abrasion and chemical resistance
- Pouch can be easily resealed throughout use maintaining saturation levels
- Each batch of wipes has a guaranteed endotoxin level of less than <0,25 EU/ml
- Validated sterile via gamma irradiation to a Sterility Assurance Level of 10-6

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	PROSAT® Sterile™ Low Endotoxin		
Basis weight (g/m ²)	140		
Fibres (>100 µm) (×10 ³ /m ²)	0,150		
Ions - chloride (ppm)	0,06		
Ions - sodium (ppm)	0,17		
Particle generation (>=0.5 µm) (×10 ⁶ /m ²)	2,2		

L×W (mm)	Packed	Pk	Cat. No.
230×230	10 wipes/bag, 55 bags/case	550	115-1424
300×300	30 wipes/bag, 15 bags/case	450	115-1440



Cleanroom wipes, sterile, Polynit Heatseal
Contec



Suitable for use in Class 1, ISO 3, M1.5 cleanrooms.

This wipe is constructed from 100% textured polyester knit. It is laser cut, which bonds the fibres at the edges of the wipe. This creates a very clean, non abrasive edge which allows 100% utilisation of the wipe surface. The wipe is ideal for general purpose cleaning in controlled environments as well as for wiping exterior surfaces of products and cleaning interior surfaces of process tools or other equipment.

- Extremely low in particles and fibres
- Good sorbency with solvents, abrasion and chemical resistant
- Validated sterile per AAMI Guidelines (SAL of 10-6)

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Polynit Heatseal
Absorbency - extrinsic (ml/m ²)	341
Absorbency - intrinsic (ml/g)	2,51
Absorbency - rate (s)	<1
Basis weight (g/m ²)	140
Extractables - using deionised water (g/m ²)	0,012
Extractables - using isopropyl alcohol (g/m ²)	0,008
Fibres (>100 µm) (×10 ³ /m ²)	0,150
Ions - chloride (ppm)	0,06
Ions - sodium (ppm)	0,17
Particle generation (>=0.5 µm) (×10 ⁶ /m ²)	2,2

L×W (mm)	Packed	Pk	Cat. No.
305×305	25 wipes/bag, 40 bags/case	1.000	115-1862



Cleanroom wipes, pre-saturated, sterile, Prosat® Sterile™, PP
Contec



Suitable for use in Class 100, ISO 5, M3.5 environments.

These meltblown PP wipes are saturated with a 70% isopropyl alcohol/30% deionised water blend and are sterilised by gamma irradiation. Ideal for cleanup following Rhodac plate sampling as well as for routine wiping tasks such as cleaning surfaces, equipment and instruments.

- Polypropylene wipe is exceptionally clean, free from additives of any kind
- Very low concentration of sodium
- Increased solvent control and accountability
- Pouch with tamper-evident label opens easily and the wipes are readily dispensed
- Microsized filaments provide exceptional particle removal
- Validated sterile to a Sterility Assurance Level of 10⁻⁶ in accordance with standards and recommended practices of the AAMI Guidelines

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Packaged in resealable pouches to preserve cleanliness and solvent saturation levels. Pouches are individually lot-numbered for traceability.

Model		PROSAT® 911EB / PP0039		
Basis weight (g/m²)		36		
Extractables - using deionised water (g/m²)		0,010		
Extractables - using isopropyl alcohol (g/m²)		0,070		
Fibres (>100 µm) (×10 ³ /m²)		6,3		
Ions - chloride (ppm)		5,0		
Ions - sodium (ppm)		3,0		
Particle generation (>=0.5 µm) (×10 ⁶ /m²)		5,1		
Description	LxW (mm)	Packed	Pk	Cat. No.
Prosat® 911EB	229×279	30 wipes/pouch, 48 pouches/case	1.440	115-0487
Prosat® PP0039	229×279	50 wipes/pouch, 36 pouches/case	1.800	115-1867



Cleanroom wipes, pre-saturated, sterile, Prosat® Sterile™, polyester
Contec



Suitable for use in Class 100, ISO 5, M3.5 environments.

These non woven polyester wipes are saturated with a 70% isopropyl alcohol/30% deionised water blend and sterilised by gamma irradiation. Ideal for wiping articles prior to pass through as well as for routine wiping tasks such as cleaning surfaces, equipment and instruments.

- Fibres are hydroentangled into an extremely soft, clean and strong fabric
- Very low in both particles and extractables
- Packed in pouch with tamper-evident label
- Validated sterile to a Sterility Assurance Level of 10⁻⁶ in accordance with stadards and recommended practices of the AAMI Guidelines

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier’s website.

Packaging: Packaged in resealable pouches to preserve cleanliness and solvent saturation levels. Pouches are individually lot-numbered for traceability.

Model		PROSAT® 70/30 IR		
Basis weight (g/m²)		69		
Extractables - using deionised water (g/m²)		0,055		
Extractables - using isopropyl alcohol (g/m²)		0,008		
Fibres (>100 µm) (×10 ³ /m²)		1,0		
Ions - chloride (ppm)		4,7		
Ions - sodium (ppm)		1,9		
Particle generation (>=0.5 µm) (×10 ⁶ /m²)		16,5		
LxW (mm)	Packed	Pk	Cat. No.	
229×229	20 wipes/pouch, 10 pouches/box, 4 boxes/case	800	115-0486	



Cleanroom wipes, sterile, SterileWipe™ AS 10
ITW Texwipe



Suitable for use in Class 10, ISO 4, M2.5 environments.

SterileWipe™ AS 10 is a 2 ply, double knit construction, 100% continuous filament polyester wipe that offers high sorbency in a sealed-border wipe to prevent particle and fibre release. The wipe provides premium performance in critical sterile environments such as pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Extremely low levels of releasable particles and fibres
- Large wipe size and liquid capacity simplify the application of large volumes of cleaning and disinfecting solutions
- Withstands exposure to common cleaning and disinfecting solutions including bleaches, phenols and quaternary ammonium compounds
- Sterilised by gamma radiation to a 10⁻⁶ SAL (Sterility Assurance Level) in accordance with AAMI guidelines
- Expiry-dated and supplied with lot-specific certificates of Irradiation and Compliance

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	SterileWipe™ AS 10			
Absorbency (ml/m²)	595			
Absorbency - rate (s)	0,3			
Basis weight (g/m²)	195			
Extractables - using deionised water (g/m²)	0,05			
Extractables - using isopropyl alcohol (g/m²)	0,09			
Fibres (>100 µm) (m²)	230			
Particle generation (ASTM E2090) - 0.5-5 µm (×10 ⁶ /m²)	6			
Particle generation (ASTM E2090) - 5-100 µm (m²)	315000			
Description	LxW (mm)	Packed	Pk	Cat. No.
TX3215S	310×310	5 inner bags of 20 wipes	100	115-1283



Cleanroom wipes, sterile, Vertex®
ITW Texwipe



High sorption wipes: 100% continuous filament, polyester knit fabric wipes made in the USA from virgin stock and processed on Texwipe's Vertex® manufacturing system, a hands-free wipe cleaning system. The wipe's unique design provides a very soft feel and high sorptive capacity.

Microdenier wipes: 100% polyester double knit microdenier wipes made in the USA by Texwipe's Vertex® process. The microdenier yarn has four times the number of filaments and twice the surface area in the yarn bundle compared to standard polyester wipes which increases wiping efficiency and creates a soft touch. The wipe does not leave behind a barrier layer and is able to capture more particles within the fibre bundle.

- Vertex® wipes are the cleanest, most consistent and most rigorously quality tested cleanroom wipes
- Quarterly Agar Overlay and LAL testing assures that wipes do not contribute cytotoxic leachables and are non pyrogenic
- Meet Sterility Assurance Level of 10⁻⁶
- Soft feel for use with delicate surfaces or applications

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Manufactured and tripple bagged in an ISO Class 3 environment with a small physical footprint.

Model	Vertex® High sorption	Vertex® Microdenier
Absorbency (ml/m²)	450	350
Absorbency - rate (s)		0,3
Extractables - using deionised water (g/m²)		0,01
Extractables - using isopropyl alcohol (g/m²)	0,02	0,07
Fibres (>100 µm) (m²)	200	520
Particle generation (ASTM E2090) - 0.5-5 µm (×10 ⁶ /m²)	3,0	4,8
Particle generation (ASTM E2090) - 5-100 µm (m²)	66000	130000

Description	L×W (mm)	Packed	Pk	Cat. No.
High sorption wipes				
High sorption wipes (TX3049)	230×230	5 inner bags of 20 wipes	100	115-1411
High sorption wipes (TX3042)	310×310	5 inner bags of 20 wipes	100	115-1413

Continued from previous page

Description	LxW (mm)	Packed	Pk	Cat. No.
Microdenier wipes				
Microdenier wipes (TX3059)	230x230	5 inner bags of 20 wipes	100	115-1408
Microdenier wipes (TX3052)	310x310	5 inner bags of 20 wipes	100	115-1409



Cleanroom wipes, pre-saturated, sterile, Sterile TechniSat®
ITW Texwipe



These wipes constructed from a hydroentangled polyester/cellulose blend are pre-wetted with 70% isopropyl alcohol and 30% DIW (filtered through a 0,2 µm filter). Each package is gamma irradiated to 10⁻⁶ Sterility Assurance Level. Ideal for alcohol wiping in sterile environments in pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Binder-free, hydroentangled polyester/cellulose substrate
- Packaging permits alcohol wipedown of exterior bag before introduction into sterile suites
- Offers low levels of solvent extractables and particle generation
- Ideal for wiping gloved hands

Packaging: Packaged in a resealable FlexPack.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3214	280x230	50 wipes/FlexPack	50	115-1777
TX3217	280x230	20 wipes/FlexPack, 24 FlexPacks/case	480	115-0314



Cleanroom wipes, pre-saturated, sterile, Sterile PolySat®
ITW Texwipe



These wipes are constructed from a 100% melt-blown PP substrate that is pre-wetted with 70% isopropyl alcohol and 30% DIW (filtered through a 0,2 µm filter). Sterile PolySat® is used for alcohol wiping in sterile environments in pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Gamma irradiated to 10⁻⁶ Sterility Assurance Level to AAMI Guidelines
- Eliminates problems associated with filtration, sterilisation and mixing of alcohol and DI water
- Packaging permits alcohol wipedown of exterior bag before introduction into sterile suites
- Soft, versatile wiping substrate
- Suitable for sterile wiping of production equipment requiring low solvent extractables and low particle generation

Packaging: Packaged in a resealable FlexPack.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3213	280x230	50 wipes/flexpack, 24 flexpacks/case	1.200	115-0471
TX3216	280x230	20 wipes/flexpack, 24 flexpacks/case	480	115-0473



Cleanroom wipes, pre-saturated, Sterile AlphaSat® 10 with WFI, CleanPak™
ITW Texwipe



Suitable for use in Class 10, ISO 4, M2.5 cleanrooms.

These 100% continuous filament polyester wipe with thermally sealed borders have been designed to control particle and fibre contamination. They are pre-wetted with 70% USP Isopropyl Alcohol (IPA) and 30% Water for Injection (WFI). Ideal for cleaning critical sterile environments in pharmaceutical aseptic processing areas, biotechnology manufacturing facilities, microbiological laboratories, and prep rooms.

- Ideal for wiping gloved hands
- Optimises solution usage and eliminates overspray of alcohol
- Reduces IPA spill potential and eliminates the storage and disposal of excess solvents
- Superior wipe strength allows for rigorous wiping with minimal release of fibres and particles

Packaging: Cleanroom-laundered and triple bagged for easy entry into sterile environments. With lot-specific information on each case.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3280	310x310	50 per flatpack, 5 packs per case	250	115-0488



Cleanroom wipes, pre-saturated, Sterile AlphaSat® 10
ITW Texwipe



Suitable for use in ISO Class 3 - 5 cleanroom environments.

This 100% continuous filament polyester wipe with thermally sealed borders is engineered to have the lowest level of releasable particles and fibres for critical and sterile environments. The wipe is pre-wetted with 70% USP IPA. Ideal for cleaning cleanroom environments including the interiors of Compounding Aseptic Isolators (CAIs), aseptic isolators in pharmaceutical manufacturing, and Biological Safety Cabinets (BSCs).

- Optimises IPA use for effective particulate removal and eliminates overspray of alcohol
- Superior strength for rigorous wiping without snagging on equipment
- Wipe glides smoothly over surfaces with low abrasion
- Sized appropriately for limited isolator space

Packaging: Double bagged in a small resealable flexpack package for easy entry into aseptic and sterile isolators.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3285	230x230	20 wipes/flexpack; 20 packs/case	400	115-1891



Cleanroom wipes, pre-saturated, sterile, Vertex®
ITW Texwipe



These 100% continuous filament, polyester knit fabric wipes are made in the USA from virgin stock and processed on Texwipe's Vertex® manufacturing system. The Vertex® manufacturing process cleans and converts wipes in an integrated, hands-free micro environment. The wipes are manufactured in an ISO Class 3 environment with a small physical footprint which provides for a more sustainable process.

- Sealed edge wipes
- Special design provides a very soft feel and high sorptive capacity
- Ideal for use with delicate surfaces or applications
- Wipes do not contribute cytotoxic leachables and are non pyrogenic
- Pre-saturated with 70% USP-Grade IPA and 30% USP Purified Water (TX3042P + TX3049P) or with 70% denatured ethanol (TX3044P)
- TX3044P: Ethanol is an effective cleaning agent, while being less toxic and irritating to the eyes than IPA

Packaging: Packaged in an easy to use resealable slider bag with a security seal and small footprint.

Description	LxW (mm)	Packed	Pk	Cat. No.
Vertex® wipes, pre-wetted with 70% USP-Grade denatured ethanol and USP purified water (TX3044P)	310x310	25 wipes/bag	25	115-1890
Vertex® wipes, pre-wetted with 70% IPA/30% distilled water (TX3049P)	230x230	25 wipes/bag	25	115-1410
Vertex® wipes, pre-wetted with 70% IPA/30% distilled water (TX3042P)	310x310	25 wipes/bag	25	115-1412

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Wipes, pre-saturated with silicone, SilSat™
Micronova



SilSat wipes address the problem of using lubricant in a controlled application by offering high grade silicone on a pre-saturated wipe. Each polyester wipe carries several grams of silicone, enough to service gears or rollers on fill lines or lubricate stopper caps and valves. Wipes are gamma irradiated.

- High grade silicone/alcohol blend
- Light impregnation
- Avoids possible transfer of silicon into product or other critical surfaces

Colour: White

Basis weight (g/m²)	106
Carrier	Isopropanol
Lubricant	Silicon fluid 350cP
Substrate	100% polyester

LxW (mm)	Packed	Pk	Cat. No.
152x102	8 wipes/pack, double bagged	24	129-0248

Absorbent pillows for cleanroom use, NovaSpill™
Micronova



Polyester

An absorbent sock/pillow (length 711 mm) which consists of polyester strips contained in a polyester sleeve.

- Low linting with good chemical resistance
- Easy to position for spill containment
- Available in irradiated format
- Can be autoclaved if required

Description	Absorbency	Pk	Cat. No.
NovaSpill™ absorbent pillow	0,85 litres/pillow	1	121-0134
NovaSpill™ absorbent pillow, irradiated	0,85 litres/pillow	12	121-0135



Sterile chemotherapy prep bench mat, BioClean ChemPrep™
Nitritex



The sterile chemotherapy prep mat BioClean is highly absorbent.

- 3-layer construction: Mesh upper layer for even distribution, highly absorbent middle layer, impermeable bottom layer
- Sterilised by gamma radiation, low-linting, latex-free
- To be stored in a dry, cool place (<40 °C) away from direct sunlight and fluorescent light

ISO 9001:2008, EU GMP Grade A compatible

Colour	LxW (mm)	Pk	Cat. No.
Blue	560x400	100	115-1938
Blue	400x250	200	115-1880



Sponges, PolyMesh™
Micronova



Sponge made of reticulated urethane foam with an abrasive polyester mesh outer layer that stands up to heavy soils without shedding or flaking. Ideal for removing chemical deposits, photo resist and fluxes.

- Autoclavable
- Resistant to strong disinfectants and steam sterilisation
- Clean alternative to household grade abrasive pads
- Ideal for scrubbing heavy soils or dried residues

Description	LxW (mm)	Thickness (mm)	Pk	Cat. No.
PolyMesh™ sponge	76x152	19	1	115-1816
PolyMesh™ sponge	76x152	76	1	129-0640
PolyMesh™ sponge	102x152	13	1	129-0641
PolyMesh™ sponge	178x114	13	1	115-1877



Sponge, NovaCel™
Micronova



These cleaning sponges are made of PVA (Polyvinyl alcohol) and absorb 25 times their weight. Their ultra-clean quality and broad chemical resistance allow them to be used for lapping and polishing in wafer manufacture as well as general wiping applications.

- Withstand strong disinfectants and steam sterilisation
- Firm to the touch in their dry state, but once hydrated the material becomes extremely soft and pliant
- Launderable and autoclavable

Colour: White

Description	LxW (mm)	Thickness (mm)	Pk	Cat. No.
NovaCel™ sponge	127x83,8	8,5	24	129-0639



Sponge, VertiKlean®
Contec



The VertiKlean Sponge is a disposable laboratory sponge. It consists of Polynit wiping material that has been laminated to a clean polyester foam. The sponge is laser cut to completely seal the edges. It is designed for general cleaning and wiping but it is also ideal for use in laboratories.

- High sorbency polyester foam with the abrasion resistance of Polynit fabric
- Autoclavable

Colour: Light yellow

LxW (mm)	Thickness (mm)	Packed	Pk	Cat. No.
215x108	15,7	8 sponges/bag	24	115-0179

Cleanroom foam wipes, Foamtec®
Contec



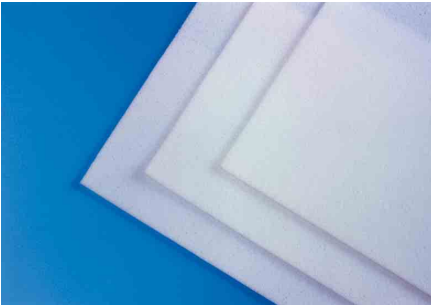
These wipes are made of open-cell PU foam (100 pores per inch). The foam is reticulated in a dry, non chemical process creating an open cell structure which minimises particulate contamination and entraps and removes particles from wiped surfaces.

- Laundered and packaged in an ISO Class 4 cleanroom
- Low particle and residue levels
- Good sorptive capacity, soft and non abrasive
- Excellent for screen cleaning in microelectronics
- Useful as packaging to protect clean products, excellent padding to reduce vibration

Colour: Beige

Description	LxW (mm)	Packed	Pk	Cat. No.
PU foam wipe, thickness 1,6 mm	152x229	25/bag	25	115-1858
PU foam wipe, thickness 3,2 mm	152x254	50/bag	50	115-1859

Cleanroom foam wipes, FoamZorb™
Contec



Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

These hydrophilic polyurethane foam wipes are engineered for use in cleanroom and other critical applications. They combine high absorbency with extremely low levels of extractable residue and particles. FoamZorb wipes have good strength, even when wet, and are very easy to wipe with, without grabbing or sticking to surfaces.

- Open cell structure
- Ideally suited for lithographic screen cleaning
- Excellent for spill pick-up, and solvent or solution applications

Thickness: 3,2 mm
Colour: White

Model	FoamZorb™
Extractables - using deionised water (g/m²)	0,936
Extractables - using isopropanol (g/m²)	0,360
Particle generation (>=0.5 µm) (×10⁶/m²)	9,0

L×W (mm)	Packed	Pk	Cat. No.
203×203	18 wipes/bag, 56 bags/case	1.008	115-1860



Cleaning wipes, NovaCel™
Micronova



PVA, reusable

These cleaning cloths are made of PVA (Polyvinyl alcohol) and absorb 25 times their weight. The ultra-clean quality and broad chemical resistance of the NovaCel means it can be used for lapping and polishing in wafer manufacture as well as general wiping applications.

- Withstand strong disinfectants and steam sterilisation
- Wipes are firm to the touch in their dry state, but once hydrated the material becomes extremely soft and pliant
- Launderable and autoclavable

Colour: White

Description	L×W (mm)	Pk	Cat. No.
NovaCel™ wipe	228,6×228,6	10	115-1878
NovaCel™ wipe, irradiated	228,6×228,6	100	115-1879

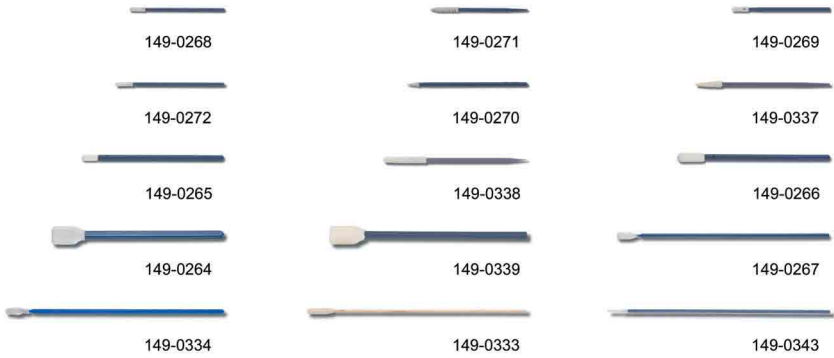


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Swabs, foam head, Critical Swab



The VWR Critical Swab line includes foam head swabs, cotton head swabs, and foam-over-cotton head swabs, suitable for a wide variety of applications. Swabs feature 100 ppi open or closed cell polyurethane foam with 100% virgin polypropylene handle. Swab heads are thermally bonded to the handle without using adhesive. Some have a blue glass fibre reinforced polypropylene shaft for extra rigidity, especially for use in critical environments.

- Ideal for use in controlled environments
- Withstand most widely used solvents
- Non abrasive to protect delicate components

Model	Handle length (mm)	Handle width (mm)	Head length (mm)	Head width (mm)	Total length (mm)
149-0264	106,0	6,6	25,0	15,0	131,0
149-0265	93,0	4,3	12,0	4,8	105,0
149-0266	93,0	4,3	21,0	7,0	114,0
149-0267	146,0	3,2	17,0	6,2	163,0
149-0268	57,5	2,4	10,5	3,4	68,0
149-0269	59,0	3,0	12,0	3,6	71,0
149-0270	79,0	3,0	10,0	3,5	89,0
149-0271	50,0	2,5		3,4	70,0
149-0272	59,7	2,2	20,0	3,2	79,7
149-0333	152,0	2,5	17,4	4,8	170,0
149-0334		3,1	15,1		167,0
149-0337	64,0		17,5	3,9	81,5
149-0338	82,8	2,5		3,6	108,0
149-0339	130,0	5,0	25,4	13,5	152,0
149-0343	161,0	2,4	14,6	1,8	173,0

Description	Pk	Cat. No.
Large rectangular foam head (closed)	100	149-0264
Medium flexible foam head with a nylon handle (closed)	100	149-0265
Large flexible foam head (closed)	100	149-0266
Medium foam head (open)	500	149-0267
Small foam head with flexible tip (open)	500	149-0268
Small foam head (open)	500	149-0269
Mini pointed compressed foam head (open)	500	149-0270
Medium pointed compressed foam head (open)	500	149-0271
Micro foam head (open)	500	149-0272
Foam head with a wooden shaft	500	149-0333
Paddle-shaped foam head	500	149-0334
Cone-shaped reticulated foam head with a blue glass fibre reinforced polypropylene shaft	500	149-0337
Extended-length reticulated foam head, handle end pointed for dual use, with a blue glass fibre reinforced polypropylene shaft	500	149-0338
Large rectangular foam head	500	149-0339
Fine point reticulated foam head with a blue glass fibre reinforced polypropylene shaft	500	149-0343

Swabs, CleanTips® , Large Adsorbond®
ITW Texwipe



Tools engineered to deliver consistent and accurate sample recovery for cleaning validation for both specific (HPLC, UV-Vis, IMS) and non specific (TOC) analytical methods.

- Surfactant-free Absorbond Series swab for HPLC/IMS analysis

Handle length (mm)	101,8
Handle width (mm)	5,2
Head length (mm)	25,7
Head width (mm)	12,7

Description	Pk	Cat. No.
Surfactant-free sampling swab	1.000	115-1896



Swabs, polyester Absorbond®, medium head, CleanTips®
ITW Texwipe



Soft, non abrasive swab is ideal for cleaning delicate optical components including coated lenses, fibre-optic sensors and mirrors.

- Swab has head of hydroentangled, non woven polyester for very low non volatile residues and particulates
- Medium flexible internal head paddle, long 100% virgin polypropylene handle
- Excellent chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	145,5
Handle width (mm)	3,2
Head length (mm)	16,8
Head width (mm)	6,8

Description	Pk	Cat. No.
Long handle swab	1.000	710-0563



Swabs, Micro Absorbond®, CleanTips®
ITW Texwipe



Ideal for cleaning delicate optical components including coated lenses, fibre-optic sensors and mirrors. The hydroentangled non woven polyester micro tip is extremely low in non volatile residue.

- Double layered material provides enhanced softness and absorbency
- Swab incorporates a flexible internal head paddle with compact polypropylene handle
- Excellent chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	60,0
Handle width (mm)	2,2
Head length (mm)	10,0
Head width (mm)	3,2

Description	Pk	Cat. No.
Micro swab	2.500	710-0561



Swabs, polyester Alpha® micro swab, CleanTips®
ITW Texwipe



Ideal for applications that demand an economical, ultra-clean swab. Micro-sized tip is ideal for cleaning small grooved surfaces, holes, or crevices. Double layered, Alpha polyester head is heat-moulded (thermally-bonded) onto the handle.

- The compact handle and flexible internal head paddle provide support and control
- Excellent chemical resistance
- Low particle and fibre generation

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	60,0
Handle width (mm)	2,2
Head length (mm)	10,0
Head width (mm)	3,2

Description	Pk	Cat. No.
Micro swab	500	710-0560



Swabs, polyester Alpha® mini swab, CleanTips®
ITW Texwipe



Swab features 100% continuous filament polyester substrate that is heat-moulded (thermally-bonded) onto the handle, sealing exposed edges for reduced fibre release and eliminating the need for contaminating adhesives. The double layered, cleanroom-laundered, knitted Alpha polyester head is extremely clean.

- Swab features a mini tip with a rigid paddle. Compact handle provides support and control
- Low particle generation and extractable levels
- Excellent chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	60,0
Handle width (mm)	2,5
Head length (mm)	9,5
Head width (mm)	3,5

Description	Pk	Cat. No.
Mini swab	500	115-0568



Swabs, polyester Alpha®, small head, CleanTips®
ITW Texwipe



Swab features 100% continuous filament polyester substrate that is heat-moulded (thermally-bonded) onto the handle, sealing exposed edges to reduced fibre release and eliminating the need for contaminating adhesives.

- Double layer construction makes the swab highly absorbent
- Soft, non abrasive polyester is ideal for sensitive surfaces
- A compact handle and rigid internal head paddle provide support and control
- Low particle generation and extractable levels
- Excellent chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	58,3
Handle width (mm)	3,0
Head length (mm)	12,0
Head width (mm)	4,0

Description	Pk	Cat. No.
Small head swab	2.500	710-0557

Swabs, Alpha® Sampling Swab
ITW Texwipe



Alpha® Sampling Swab is made from the cleanest 100% polyester knit materials. These swabs are further cleaned using a proprietary process to make it suitable for use in HPLC using a UV-Vis detector analytical method as part of a cleaning validation protocol.

- Proprietary cleaning process reduces interference in the 230 nm range resulting in an improved limit of detection
- Double layered, double knit polyester head entraps contaminants for maximum pick-up and easy release, providing excellent recovery rates
- Notched, break-away handle allows the head to be placed into the vial with minimal handling and contamination

Handle length (mm)	101,8
Handle width (mm)	5,2
Head length (mm)	25,7
Head width (mm)	12,7

Description	Pk	Cat. No.
Alpha® Sampling Swab	100	115-1814



Swabs, CleanTips®, polyester Alpha®
ITW Texwipe



- This swab is ideal for cleaning validation and sampling. Features 100% continuous filament polyester substrate that is heat-moulded (thermally-bonded) onto the handle.
- Exposed edges are sealed to reduce fibre release and eliminate the need for contaminating adhesives
 - Swab incorporates a full-size, regular head on a rigid paddle
 - Polyester is soft and non abrasive, making the swab good for sensitive surfaces

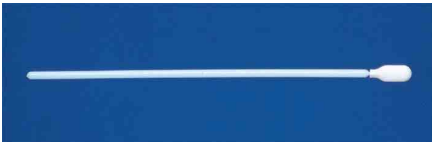
Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	101,8
Handle width (mm)	5,2
Head length (mm)	25,7
Head width (mm)	12,7

Description	Pk	Cat. No.
Large paddle swab	1.000	710-0552



Swabs, CleanTips®, polyester Alpha®, medium head
ITW Texwipe



- Ideal for cleaning and validation sampling applications that demand an ultra-clean swab. This 100% continuous filament polyester is heat-moulded (thermally-bonded) onto a polypropylene handle, eliminating the need for contaminating adhesives. The exposed edges are sealed to reduce fibre release.
- Cleanroom laundered knitted polyester for low particle generation and extractable levels
 - A double layer of Alpha polyester gives additional body and absorbency
 - Flexible internal head paddle, long handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	145,5
Handle width (mm)	3,2
Head length (mm)	16,8
Head width (mm)	6,8

Description	Pk	Cat. No.
Polyester long swab	1.000	710-0562



Swabs, CleanTips®, large rectangular foam head
ITW Texwipe



- Thermally-bonded swab ideal for applications requiring high absorbency, low particle generation, and uniform dispersing of solvents. Made from polyurethane foam with 100 pore per inch porosity. Can be used in a wide variety of industrial applications, from general assembly to cleanrooms.
- High-grade polyurethane foam head will not crack or chip
 - Inherent softness and low abrasion protect delicate components
 - Polypropylene handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	106,0
Handle width (mm)	6,6
Head length (mm)	25,0
Head width (mm)	15,0

Description	Pk	Cat. No.
Rectangular foam head swab	1.000	710-0547



Swabs, CleanTips®, large circular foam head
ITW Texwipe



Thermally-bonded swab made from polyurethane foam with 100 pore per inch porosity. Can be used in a wide variety of industrial applications, from general assembly to cleanrooms. Ideal for applications requiring high absorbency, low particle generation, and uniform dispersing of solvents.

- Head will not crack or chip
- Inherent softness and low abrasion protect delicate components
- Swab has a large circular head on a long, easy grip polypropylene handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Head shape	Round
Handle length (mm)	105,5
Handle width (mm)	6,6
Head length (mm)	26,7
Head width (mm)	19,2

Description	Pk	Cat. No.
Large circular foam head swab	1.000	710-0548



Swabs, CleanTips®, medium foam head
ITW Texwipe



General purpose swab with a closed-cell polyurethane foam head offers excellent durability and cushioning. Made from polyurethane foam with 100 pore per inch porosity. Can be used in a wide variety of industrial applications, from general assembly to cleanrooms.

- Swab features a flexible nylon paddle
- Low particle and fibre generation
- Good chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	93,0
Handle width (mm)	4,3
Head length (mm)	12,0
Head width (mm)	4,8

Description	Pk	Cat. No.
Medium foam head swab	1.000	710-0549



Swabs, CleanTips®, rectangular foam head
ITW Texwipe



Thermally-bonded swab is ideal for applications requiring high absorbency, low particle generation, and uniform dispersing of solvents.

- Head is constructed from high-grade polyurethane foam
- Inherent softness and low abrasion protect delicate components
- Polypropylene handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	101,8
Handle width (mm)	5,2
Head length (mm)	25,7
Head width (mm)	12,7

Description	Pk	Cat. No.
Medium rectangular foam head swab	1.000	710-0551



Swabs, CleanTips®, flexible, small CleanFoam® head
ITW Texwipe



Ideal for cleaning small, confined areas. Very low in non volatile residue. Made from polyurethane foam with 100 pore per inch porosity. Can be used for a wide variety of industrial applications, from general assembly to cleanrooms.

- Highly absorbent swab is low in particulates and withstands most widely used solvents
- Very low in non volatile residue
- A compact, rigid handle and flexible internal head paddle provide controlled support

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	57,5
Handle width (mm)	2,4
Head length (mm)	10,5
Head width (mm)	3,4

Description	Pk	Cat. No.
Small head swab	500	710-0569



Swabs, CleanTips®, medium CleanFoam® head
ITW Texwipe



Swab has a thermally-moulded CleanFoam head on a flexible paddle. Made from polyurethane foam with 100 pore per inch porosity. Suitable for a wide variety of industrial applications, from general assembly to cleanrooms.

- Ideal for use with a solvent such as isopropanol
- Very low in both non volatile residue and particle generation
- Good chemical resistance
- Long handle and flexible internal head paddle provide support

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	146,0
Handle width (mm)	3,2
Head length (mm)	17,0
Head width (mm)	6,4

Description	Pk	Cat. No.
Medium head swab	2.500	710-0555



Swabs, firm, small CleanFoam® head, CleanTips®
ITW Texwipe



Economical swab ideal for use with a solvent such as isopropanol. Made from polyurethane foam with 100 pore per inch porosity. Can be used for a wide variety of industrial applications, from general assembly to cleanrooms.

- Highly absorbent swab is low in particulates and withstands most widely used solvents
- Very low in both non volatile residue and particle generation
- Rigid, compact polypropylene handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	59,0
Handle width (mm)	3,0
Head length (mm)	12,0
Head width (mm)	3,6

Description	Pk	Cat. No.
Small head swab	2.500	710-0556



Swabs, medium compressed CleanFoam® head, CleanTips®

ITW Texwipe



Swab features a compressed polyurethane head with precision pointed tip and side ridges, on a short polypropylene handle. Made from polyurethane foam with 100 pore per inch porosity, swab can be used for a wide variety of industrial applications, from general assembly to cleanrooms.

- Very low in non volatile residue
- Highly absorbent swab is low in particulates
- Withstands most widely used solvents

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	50,0
Handle width (mm)	2,5
Head length (mm)	20,0
Head width (mm)	3,4

Description	Pk	Cat. No.
Medium compressed swab	2.500	710-0558



Swabs, Micro CleanFoam® head, CleanTips®

ITW Texwipe



Excellent swab for cleaning very small areas of parts and assemblies. Polyurethane foam head has been solvent-washed to greatly reduce non volatile residue.

- Very low particle generation
- Swab incorporates a flexible paddle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	59,7
Handle width (mm)	2,2
Head length (mm)	10,0
Head width (mm)	3,2

Description	Pk	Cat. No.
Micro swab	500	710-0578



Swabs, CleanTips®, nylon MicroSwab™

ITW Texwipe



Swab is specially designed for precision cleaning of optics and optical fibres, microscopes, reticles, photomasks, and wafers. Also suitable for precision application of solvents and cleaning solutions.

- Very low in both non volatile residue and particle generation
- Swab features a small compressed synthetic nylon pointed tip on a rigid polypropylene handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	152,5
Handle width (mm)	2,8
Head length (mm)	15,5
Head width (mm)	0,9

Description	Pk	Cat. No.
MicroSwab™	500	710-0554

Swabs, Microdenier
ITW Texwipe



Texwipe's microdenier swab series is made from the cleanest microdenier material, 100% polyester, nylon-free. The complete thermal bond construction eliminates adhesive contamination. Cleanroom laundered, providing ultra-low levels of particles, NVRs (non volatile residues) and ions, and engineered to provide enhanced absorbency and quick wicking performance. Streak-free cleaning with scratch-sensitive surfaces and compatible with QAC (quaternary ammonium chloride) cleaners and disinfectants. Cleanroom manufactured, made to exacting and consistent tolerances using high-precision automated processes.

- Packaged in 8 reclosable, silicone-free bags/case
- Lot coded for traceability and quality control
- 100% virgin polypropylene handle

Handle length (mm)	101,8	60,0	145,5
Handle width (mm)	5,2	2,2	3,2
Head length (mm)	25,7	11,0	16,8
Head width (mm)	12,7	3,2	6,8
Head shape	Flat paddle head	Short small head	Long medium head

Description	Pk	Cat. No.
Microdenier swab, flat paddle head	100	115-1895
Microdenier swab, short small head	500	115-1897
Microdenier swab, long medium head	100	115-1899



Swabs, foam-covered cotton
ITW Texwipe



Highly absorbent, general purpose swab features a soft head with low abrasion. Swab has a foam head moulded around a cotton bud core on a long hardwood handle.

- Good chemical resistance

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	127,0
Handle width (mm)	2,2
Head length (mm)	27,0
Head width (mm)	11,6

Description	Pk	Cat. No.
Foam/cotton swab	2.500	710-0553



Swabs, foam-covered cotton
ITW Texwipe



Economical swab used for cleaning surfaces and hard-to-reach areas. Swab features an open-cell polyurethane foam head. This surrounds a cotton bud core, which provides cushioned support and additional sorbency.

- Highly absorbent, general purpose swab
- Low fibre and particle generation
- Good chemical resistance. Hardwood handle

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	126,0
Handle width (mm)	2,2
Head length (mm)	28,0
Head width (mm)	13,5

Description	Pk	Cat. No.
Foam covered cotton bud swab	2.500	710-0544



Swabs, CleanTips®, wrapped cotton
ITW Texwipe



Made from 100% cotton, swab can be used for a wide variety of industrial applications. Swab is also useful for application of solvents and cleaning solutions.

- Highly absorbent swab is low in particulates
- Withstands strong solvents such as 1, 1, 1-trichlorethane

Handle length (mm)	135,0
Handle width (mm)	2,2
Head length (mm)	17,0
Head width (mm)	7,0

Description	Pk	Cat. No.
Mid-size cotton head swab	5.000	710-0545



Swabs, CrushTube™
ITW Texwipe



Ideal for cleaning ioniser tips. Point-of-use isopropanol-saturated polyester swab.

- Swab has a polyester brush tip with a breakable glass ampoule containing 91% isopropanol (IPA)
- When ampoule is crushed using protective plastic sleeve, brush tip becomes saturated and is ready for use
- Silicone-free

Packaging: Packaged 50 swabs per bag, 10 boxes per case for a total of 500 swabs per case. Bag-within-a-bag packaging.

Handle length (mm)	44,0
Handle width (mm)	9,5
Head length (mm)	10,0
Head width (mm)	8,3

Description	Pk	Cat. No.
Swab	50	710-0574



ESD swabs, Alpha®, Transplex®
ITW Texwipe



Excellent dissipative swab for cleaning surfaces and hard-to-reach areas. Swab head features ultra-clean, knitted Alpha polyester with flexible internal paddle.

- Low-contamination Transplex handle, safely dissipates electrical charges without contaminating additives
- Swab handle bears the ESD-safe imprint

Ordering information: Bag-within-a-bag packaging.

Handle length (mm)	147,0
Handle width (mm)	3,0
Head length (mm)	17,0
Head width (mm)	6,8

Description	Pk	Cat. No.
Long handle ESD swab	100	710-0581



ESD swabs, Micro Alpha®, Transplex®
ITW Texwipe



Excellent dissipative swab for cleaning very small grooved, slotted, and recessed areas. Swab head features ultra-clean, laundered, double layer knitted Alpha polyester with flexible internal paddle.

- Ideal for use with many cleaning solvents and solutions
- Low-contamination Transplex handle, safely dissipates electrical charges without contaminating additives
- Swab handle bears the ESD-safe imprint

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	80,5
Handle width (mm)	3,0
Head length (mm)	10,0
Head width (mm)	4,0

Description	Pk	Cat. No.
Micro ESD swab	500	710-0580



ESD swabs, Micro CleanFoam®, Transplex®
ITW Texwipe



Ideal for cleaning very small areas. Constructed from 100 pore per inch open-cell polyurethane foam, the laundered CleanFoam® head offers excellent cushioning and superior sorbency on a flexible internal handle.

- CleanFoam® swabs are solvent-processed for very low levels of non volatile residue and particle generation
- Low-contamination Transplex® handle, safely dissipates electrical charges without contaminating additives
- Swab handle bears the ESD-safe imprint

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	80,7
Handle width (mm)	3,0
Head length (mm)	10,0
Head width (mm)	3,8

Description	Pk	Cat. No.
Micro ESD swab	500	710-0579



ESD swabs, Mini-compressed CleanFoam®, Transplex®
ITW Texwipe



Ideal for cleaning small slotted and grooved areas. Laundered, open-cell CleanFoam® head is firm with a pointed tip.

- Low-contamination Transplex handle, safely dissipates electrical charges without contaminating additives
- Swab handle bears the ESD-safe imprint

Packaging: Bag-within-a-bag packaging.

Head shape	Pointed
Handle length (mm)	78,5
Handle width (mm)	3,0
Head length (mm)	10,0
Head width (mm)	3,5

Description	Pk	Cat. No.
Mini-compressed ESD swab	500	710-0575

ESD pick swab
ITW Texwipe



Excellent cleanest foam, dissipative swab with micro tip for cleaning very small areas.

Packaging: Bag-within-a-bag packaging.

Handle length (mm)	56,5
Handle width (mm)	2,4
Head length (mm)	5,0
Head width (mm)	1,0

Description	Pk	Cat. No.
ESD stick swab, with micro tip	500	115-1901



Swabs, CleanTips® , low TOC Alpha®
ITW Texwipe



Texwipe low TOC Alpha® swab series are made from 100% polyester knit materials which are further cleaned to make them suitable for use in Total Organic Carbon (TOC) analysis. They are suitable for surface sampling for use in cleaning validation protocols and in precision cleaning of hard-to-reach areas or small spaces.

- Low TOC level (<50 µg/l, <50 ppb)
- Double layered
- Polypropylene handle

Handle length (mm)	101,8	145,5
Handle width (mm)	5,2	3,2
Head length (mm)	25,7	16,8
Head width (mm)	12,7	6,8

Description	Pk	Cat. No.
Swab with flat paddle head and easy grip handle	1.000	115-1894
Swab with flexible paddle head and long handle	100	115-1900
Swab with flexible paddle head and long handle	100	115-1939
Swab with flexible paddle head and long handle	1.000	115-1898

TOC sampling kit for cleaning validation
ITW Texwipe



These TOC (Total Organic Carbon) Cleaning Validation Kits have been designed to simplify sampling for cleaning validation in the pharmaceutical industry. The kit contains components for sampling 12 or 72 different locations in the production area, and provides an efficient means of transport of the samples from production to laboratory with minimal chance of contamination. Comprising of TOC sample vials that have been cleaned and are certified to <10 ppb TOC content with closures, together with SnapSwab™ (large) sample collection swabs certified to <50 ppb TOC. The sample collection swab stick has a large head on a firm shaft, which thereby provides the head with firm support; the shaft can be broken off to minimise contact and the associated risk of contamination.

- Contains sufficient components for 12 tests (12 vials and 24 swabs) or 72 tests (72 vials and 144 swabs))
- Labels for identifying samples are included
- Knitted polyester swab
- Low particle generation breakaway handle allows swab head to be placed into the vial with minimal handling and contamination
- Good absorbent capacity
- Very good chemical resistance
- Autoclavable to ensure sampling under sterile conditions

Delivery information: Certificates of analysis ensure traceability of the production lots.

Description	Pk	Cat. No.
TOC kit for cleaning validation (12 tests)	1 KIT	710-0542
TOC kit for cleaning validation (72 tests)	1 KIT	710-0582

SwabTool
Micronova



The SwabTool was designed for use in environmental monitoring and sampling. The electropolished stainless steel handle features a quick disconnect that allows for use with the SSU series of handles. This extended reach is ideal when monitoring/sampling in large tanks and other hard to reach areas.

- Compatible with strong disinfectants and steam sterilisation
- Compatible with swabs featuring a 6,4 mm diameter handle
- Swab is locked in place by a set screw using an allen wrench

Description	Pk	Cat. No.
SwabTool	1	300-0236



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Polyester swabs, sterile
ITW Texwipe



Sterile polyester swabs are constructed from 100% medical-grade spun polyester. These swabs are bonded securely to a polystyrene shaft by an aqueous-based adhesive. The swabs are made to exacting and consistent tolerances using high-precision automated processes. The easy to open, individually wrapped swabs ensure sterility at point-of-use. The swabs are visible through clear packaging which also offers visibility of seal integrity.

- Gamma irradiated
- Lot code and expiration date clearly marked on each package and included in barcode for inventory control
- Certificates of Irradiation and Compliance attached to each case confirm irradiation dose met specifications
- Pre-sterilised swabs eliminate repackaging, documentation and validation of autoclaved swabs

Table with 4 columns: Dimension, Value 1, Value 2, Value 3. Rows include Handle length (mm), Handle width (mm), Head length (mm), and Head width (mm).

Table with 3 columns: Description, Pk, Cat. No. Rows include Swab with polystyrene handle and Swab, small with polystyrene handle.



Sterile CleanFoam swab with circular head
ITW Texwipe



The sterile CleanFoam swabs are constructed from the highest quality 100 ppi polyurethane foam. Complete thermal bond construction eliminates adhesive contamination. The swabs are made to exacting and consistent tolerances using high-precision automated processes. The easy to open, individually wrapped swabs ensure sterility at point-of-use. The swabs are visible through clear packaging which also offers visibility of seal integrity.

- Gamma irradiated
- Lot code and expiration date clearly marked on each package and included in barcode for inventory control
- Pre-sterilised swabs eliminate repackaging, documentation and validation of autoclaved swabs

Table with 2 columns: Dimension, Value. Rows include Handle length (mm), Handle width (mm), Head length (mm), Head width (mm), and Head shape.

Table with 3 columns: Description, Pk, Cat. No. Rows include Swab circular foam, sterile and Swab rectangular foam, sterile.



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Sterile cotton swab
ITW Texwipe

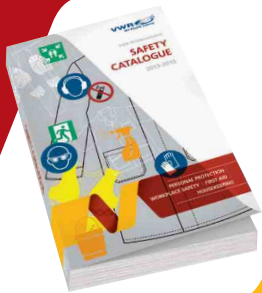


Sterile cotton swabs are constructed from 100% USP-grade cotton. These swabs are bonded securely to a wooden or polystyrene shaft by an aqueous-based adhesive. The swabs are made to exacting and consistent tolerances using high-precision automated processes. The easy to open, individually wrapped swabs ensure sterility at point-of-use. The swabs are visible through clear packaging which also offers visibility of seal integrity.

- Gamma irradiated
- Lot code and expiration date clearly marked on each package and included in barcode for inventory control
- Certificates of Irradiation and Compliance attached to each case confirm irradiation dose met specifications
- Pre-sterilised swabs eliminate repackaging, documentation and validation of autoclaved swabs

Handle length (mm)	137,0	
Handle width (mm)	2,5	
Head length (mm)	18,2	
Head width (mm)	6,4	6,0

Description	Pk	Cat. No.
Swab with polystyrene handle, sterile	50	115-1881
Swab with wood handle, sterile	50	115-1882



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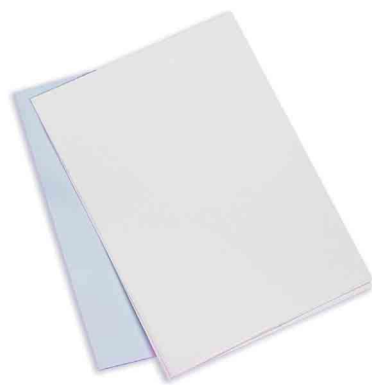
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Together, We Enable Science

The background of the page features a collage of various stationery items. There are several sheets of paper in different colors (white, light blue, yellow, pink). A stack of sticky pads is visible, with one pad showing a recycling symbol and the text "Recycling 80-90% Paper". A clipboard with a silver clip is also present. A spiral-bound notebook is shown, along with a roll of perforated paper. The items are arranged in a dynamic, overlapping fashion against a light blue background with white curved shapes.

STATIONERY

Paper and sticky pads	160
Clipboards	162
Notebooks	163
Labels	164
Tapes	165
Pens	172

Cleanroom bond paper, TexBond® 20
ITW Texwipe



TexBond® is a cleanroom bond paper with exceptional contamination control characteristics needed in critical environments. It has been especially formulated to address the needs of users requiring a paper that retains low ion and particle levels with significantly improved copying and writing qualities. This paper will yield sharp copies that will not show through to the next sheet due to its high opacity rating.

- Exceptional copying ability
- Laser printer and photocopier compatible
- Clear reproductions
- Autoclavable for use in sterile environments
- Weight: 75 g/m²

Description	Colour	Pk	Cat. No.
Bond paper, A4	Blue	250	818-0269
Bond paper, A4	White	250	818-0270
Bond paper, A4	Pink	250	818-0271
Bond paper, A4	Yellow	250	818-0272
Bond paper, A4	Orange	250	818-0273
Bond paper, A4	Green	250	818-0274
Bond paper, A3	Blue	250	818-0275

Cleanroom bond paper, TexBond® 22
ITW Texwipe

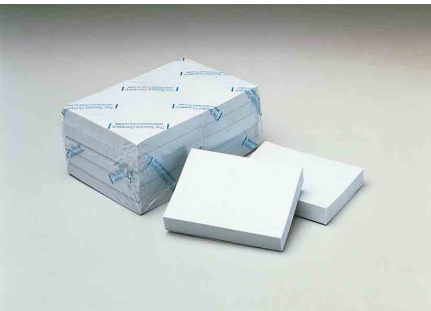


Medium-weight cellulose paper saturated with synthetic latex substantially reduces particle generation associated with standard papers. These papers are available in DIN A4 and A3 sizes. Accepts writing and printing/copying on all common office equipment.

- Excellent retention of inks and toners
- Low particle and ion release
- Latex-impregnated for optimal purity and smoothness
- Minimal static charging prevents pages from sticking
- Sterilisable
- Weight: 75 g/m²

Description	Colour	Pk	Cat. No.
Bond paper, A4	Blue	250	818-0262
Bond paper, A4	White	250	818-0263
Bond paper, A4	Pink	250	818-0264
Bond paper, A4	Yellow	250	818-0265
Bond paper, A4	Orange	250	818-0266
Bond paper, A4	Green	250	818-0267
Bond paper, A3	Blue	250	818-0268

Notepad, self-adhesive, TexNotes®
ITW Texwipe



Ideal for leaving notes on documents, reports, instruments, and most cleanroom surfaces.

- Low contamination polymeric elastomer adhesive allows TexNotes® to be attached and removed without high residue

Format: 102x76 mm

Packaging: 72 sheets per pad, 10 pads per pack (Bag-Within-A-Bag®)

Description	Colour	Pk	Cat. No.
Notepad, A7	Light Blue	10	818-0124



Cleanroom papers, PUREImage™



Cleanroom paper is designed for use in cleanroom environments where the prevention of chemical and particle contamination is critical.

- High tensile strength and excellent heat resistance for enhanced copier and printing efficiency
- PE binding technology results in very low levels of particles, non volatile residue and ion extractables
- Unique precision cutting technology guarantees consistent sizing and cleanliness
- Paper is web-cleaned on both sides prior to sheeting

Format: DIN A4

Weight: 80 g/m², except 115-0156 which is 105 g/m²

Produced in an ISO Class 4 (FED-STD-209E Class 10/M2,5) cleanroom and cleaned and double bagged in an ISO Class 5 (FED-STD-209E Class 100/M3,5) cleanroom. Paper is suitable for use in ISO Class 4 (FED-STD-209E Class 10/M2,5) to ISO Class 6 (FED-STD-209E Class 1000/M4,5) cleanrooms.

Packaging: Paper is packed 250 sheets per pack, 10 packs per case.

Description	Colour	Pk	Cat. No.
Non latex paper, A4 size	Blue	2.500	115-0150
Non latex paper, A4 size	Yellow	2.500	115-0151
Non latex paper, A4 size	Pink	2.500	115-0152
Non latex paper, A4 size	Green	2.500	115-0153
Non latex paper, A4 size	Orange	2.500	115-0154
Non latex paper, A4 size	Violet	2.500	115-0155
Non latex paper, A4 size	White	2.500	115-0156
Latex-impregnated paper, A4 size	White	2.500	115-0163
Latex-impregnated paper, A4 size	Blue	2.500	115-0164
Latex-impregnated paper, A4 size	Yellow	2.500	115-0165
Latex-impregnated paper, A4 size	Green	2.500	115-0166



Cleanroom paper, b`paper



Formulated with coated paper, without magnesium silicate, the b`paper 80 g or 92 g is cut, cleaned and packed in a Class 100 (ISO 5) cleanroom.

- Different colours available
- Can be used with inkjet or laser printers, with copy machines, and is also suitable for note taking
- Low ionic and particle contamination
- Ideal for all cleanroom applications

Description	Colour	Weight (g)	Pk	Cat. No.
Paper, A4	White	80	250	818-0255
Paper, A4	Blue	80	250	818-0254
Paper, A4	Pink	80	250	818-0253
Paper, A4	Yellow	80	250	818-0252
Paper, A4	Green	80	250	818-0251
Paper, A3	White	80	250	818-0250
Paper, A3	Blue	80	250	818-0249
Paper, A4	Cream	80	250	818-0261
Paper, A4	White	92	250	818-0248
Paper, A4	Blue	92	250	818-0256



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Cleanroom clipboard TexWrite®
ITW Texwipe



Polypropylene

The cleanroom clipboard is the ideal portable writing surface for use in critical environments. The rugged clipboard is constructed from rigid polypropylene and features a durable plastic clip mechanism. Rigid back allows use while standing. This clipboard is available for use with any TexWrite® documentation material.

- Chemical resistant, corrosion resistant, durable construction
- Suitable for use with 8,5"×11" or A4 paper
- Securely holds 1 - 50 sheets of cleanroom paper
- Rounded corners, no sharp edges to damage gloves or garments
- Cleanroom packaged

Description	Pk	Cat. No.
TexWrite® Clipboard	12	811-0123



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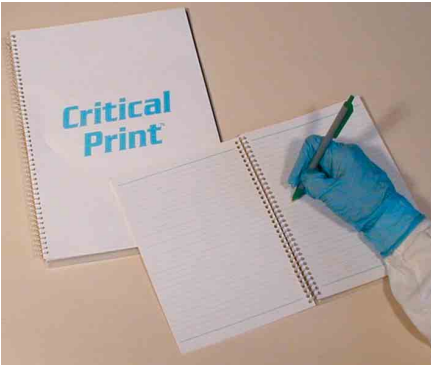
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Cleanroom notebooks, PUREImage™



These notebooks contain VWR PUREImage™ latex-free paper and have a see-through cover. Designed for use in cleanrooms and critical environments where particulate or extractable contamination control is imperative.

- Produced with new, latex-free, paper-binding technology
- College ruled on all pages
- Double bagged in a Class 100 environment

Format: A4, A5, A6, 100 pages (50 sheet).

Description	Colour	Type	Pk	Cat. No.
Notebook, latex-free, A4	White	Ruled	10	818-0126
Notebook, latex-free, A5	White	Ruled	20	818-0127
Notebook, latex-free, A6	White	Ruled	40	818-0128



Cleanroom notebook, b`paper

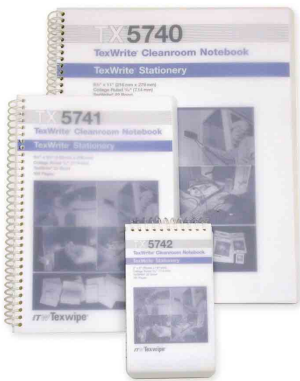


Notebook paper.

- Ruled
- Different sizes

Description	Pk	Cat. No.
Notebook, A4	1	818-0258
Notebook, A5	1	818-0257
Notebook, Memo	1	818-0260

Spiral cleanroom notebooks, TexWrite®
ITW Texwipe



TexWrite® cleanroom spiral-bound notebook, college ruled. An economical choice for note taking and data recording in critical environments.

- Printed with low sodium, IPA resistant inks
- Lie flat and pages rotate freely for ease of use

Format: Large (279×216 mm), medium (216×140 mm), small (127×76 mm)

Packaging: Bag-Within-A-Bag®

Description	Colour	LxW (mm)	Type	Pk	Cat. No.
Notebook, spiral, A4	White	216×279	Ruled	10	818-0129
Notebook, spiral, A5	White	140×216	Ruled	10	818-0130
Notebook, spiral, A7	White	76×127	Ruled	20	818-0121



Cleanroom labels, autoclavable
ITW Texwipe



Labels 5×5 cm. (500/roll).

- Autoclavable

Description	Dimensions (mm)	Pk	Cat. No.
Cleanroom labels, autoclavable	50×50	1 Roll	817-0302

Cleanroom labels, direct thermal
ITW Texwipe



Cleanroom labels, direct thermal (1000/roll).

- Blank
- Permanent adhesive

Description	Dimensions (mm)	Pk	Cat. No.
Labels, thermal	38,1×38,1	4 Roll	817-0299
Labels, thermal	76,2×50,8	4 Roll	817-0303
Labels, thermal	101,6×50,8	4 Roll	817-0306

Cleanroom labels, gloss
ITW Texwipe



Glossy cleanroom labels are designed for thermal transfer printing in a cleanroom environment. Available with two different adhesive levels to provide excellent adhesion to a variety of surfaces without leaving residue.

- Removable adhesive
- Ideal for applications where ink adhesion and reflectivity are desired

Description	Dimensions (mm)	Pk	Cat. No.
Labels, gloss	38,1×38,1	4 Roll	817-0300
Labels, gloss	76,2×50,8	4 Roll	817-0304
Labels, gloss	101,6×50,8	4 Roll	817-0307

Cleanroom labels, matte
ITW Texwipe



Matte finish cleanroom labels provide excellent compatibility with cleanroom pens and thermal transfer inks. Available with two different adhesive levels to provide excellent adhesion to a variety of surfaces without leaving residue.

- Ideal for handwritten applications

Description	Dimensions (mm)	Pk	Cat. No.
Labels, matte, removable adhesive	38,1×38,1	4 Roll	817-0301
Labels, matte, permanent adhesive	76,2×50,8	4 Roll	817-0305
Labels, matte, removable adhesive	101,6×50,8	4 Roll	817-0308



Cleanroom construction tape CTP™, white



Polyethylene with synthetic rubber adhesive

A high tack tape with synthetic rubber adhesive. The aggressive adhesive easily bonds different mediums such as plastic and concrete or stainless steel. The unique serrated edges allow an easy tear at any length when blades and dispenser are not practical.

- Clean construction
- Easily bonds different mediums
- Serrated edge for easy tear
- Aggressive adhesive

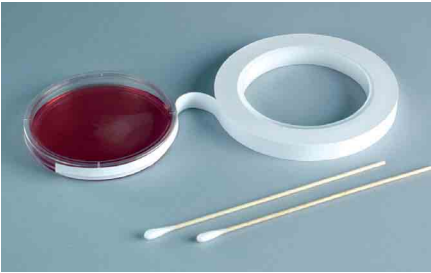
Length: 32,92 m

Colour: White

Description	Width (mm)	Pk	Cat. No.
Cleanroom construction tape CTP™	25,40	36 Roll	817-0062
Cleanroom construction tape CTP™	50,80	1 Roll	817-0077



Cleanroom tape CR100IR™ irradiated
Micronova



Vinyl

An ultra-processed, irradiated vinyl tape which helps to limit particulate and bioburden counts. Processed in a ISO 4 environment, wound on a plastic core. The tape comes with full certification of irradiation and lot traceability.

- Application:Critical and aseptic processing applications, media preparation, batching, packaging
- Irridiated

Length: 32,92 m

Packaging: Double bagged

Width (mm)	Sterile	Colour	Pk	Cat. No.
12,70	+	Dark Blue	30	819-0081
12,70	+	Dark Blue	72 Roll	819-0080
12,70	+	Dark Green	72	819-0082
12,70	+	Orange	72	819-0083
12,70	+	Red	72	819-0084
12,70	+	Transparent	72	819-0085
12,70	+	White	72 Roll	819-0086
12,70	+	Yellow	72 Roll	819-0087
19,05	+	Red	16	819-0090
19,05	+	Transparent	48	819-0091
19,05	+	Transparent	16	819-0092
19,05	+	Yellow	48	819-0093
25,40	+	Transparent	36 Roll	819-0088
25,40	+	White	36 Roll	819-0019
50,80	+	White	1 Roll	819-0089



Cleanroom anti-static tape NovaStat™
Micronova



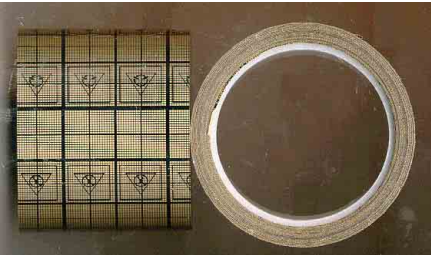
Transparent

A transparent tape specially designed for use in ESD-sensitive environments.

- Suitable for sealing and packaging
- Will not create a static charge
- Wound on a 3" plastic core

Width (mm)	Length (m)	Sterile	Pk	Cat. No.
19,05	32,92	+	1	819-0017
25,40	65,84	+	1	819-0016
50,80	65,84	+	1	819-0073

Cleanroom conductive grid tape CGT™
Micronova



Polypropylene, clear with grid pattern

A special tape layered with a non sparking, anti-static surface on the inside and outside of the tape. The conductive grids are embedded between two anti-static layers.

- Suitable for use in ESD-sensitive environments
- Static shield
- Suitable for sealing and packaging
- Prevents static build-up

Length: 32,92 m

Colour: Clear

Description	Width (mm)	Pk	Cat. No.
Cleanroom Conductive Grid Tape CGT™	9,52	1 Roll	819-0078
Cleanroom Conductive Grid Tape CGT™	12,70	1 Roll	819-0074
Cleanroom Conductive Grid Tape CGT™	19,05	1 Roll	819-0077
Cleanroom Conductive Grid Tape CGT™	25,40	1 Roll	819-0018
Cleanroom Conductive Grid Tape CGT™	38,10	1 Roll	819-0075
Cleanroom Conductive Grid Tape CGT™	50,80	1 Roll	819-0076
Cleanroom Conductive Grid Tape CGT™	152,40	1 Roll	819-0079



Cleanroom extreme temperature film tape 825
Micronova



Polyamide film, amber transparent with silicon adhesive

A polyamide film with pressure-sensitive silicone adhesive. The extreme heat resistant properties (-100 °F to 500 °F) of this tape make it suitable for high heat and sub zero applications. The silicone adhesive ensures a clean release from most substrates even after being exposed to extreme temperatures.

- Flame resistant electrical insulation
- Solder mask for circuit boards
- Heat sealing and lamination
- Cold storage
- Lyophilising and freeze drying

Length: 32,92 m

Colour: Amber transparent

Description	Width (mm)	Sterile	Pk	Cat. No.
Cleanroom Tape	3,17	+	1 Roll	819-0068
Cleanroom Tape	5,00	+	1 Roll	819-0067
Cleanroom Tape	6,35	+	1 Roll	817-0055
Cleanroom Tape	9,52	+	1 Roll	819-0071
Cleanroom Tape	12,70	+	1 Roll	817-0054
Cleanroom Tape	10,16	+	1 Roll	819-0069
Cleanroom Tape	19,05	+	1 Roll	819-0070
Cleanroom Tape	25,40	+	1 Roll	817-0057
Cleanroom Tape	76,20	+	1 Roll	819-0072

Cleanroom anti-static tape
UltraTape



High temperature polyimide ESD tapes with silicone adhesive. These cleanroom tapes are designed for use in ESD-sensitive environments such as sealing anti-static bags, packing of electronic components, medical instruments, precision mechanical equipment, and splicing films. They can withstand temperatures up to 315 °C for use during circuit board manufacturing.

- Naturally anti-static or treated to produce an anti-static surface to generate very low voltage during unwind and use

Description	Length (m)	Colour	Pk	Cat. No.
Polyimide tape with silicone adhesive	32,92	Bronze	1 Roll	819-0099
Polyimide tape with silicone adhesive	32,92	Bronze	3 Roll	819-0104
Polyimide tape with silicone adhesive	32,92	Bronze	4 Roll	819-0103
Polyimide tape with silicone adhesive	32,92	Bronze	6 Roll	819-0102
Polyimide tape with silicone adhesive	32,92	Bronze	8 Roll	819-0101
Polyimide tape with silicone adhesive	32,92	Bronze	12 Roll	819-0100

Cleanroom tape microSeal™ CSLB™
Micronova



Polyethylene with acrylic adhesive, pre-perforated

For cleanroom gowning, this conformable tape can be used to ensure an effective seal between the glove and garment. For plate sealing, bundling and labeling applications the excellent peel/reseal properties combined with the easy tear perforations make this tape the ideal choice.

- Low outgassing polyethylene film will remove cleanly, leaving no adhesive residue
- Can be written on with fibre tip and permanent markers
- Wound on a 3" plastic core with no liner, meaning less packaging and waste to discard
- Also available irradiated

Length: 32,92 m

Colour: White

Width (mm)	Sterile	Pk	Cat. No.
12,70	-	1	819-0094
19,05	+	48	819-0097
19,05	-	1	819-0096
25,40	+	36	819-0095
25,40	-	1	819-0023
50,80	+	24	819-0025
50,80	-	1	819-0024
76,2	-	1	819-0098

Tape, M-Zone™ CuffStrip™
Micronova



A conformable polyethylene tape used to ensure an effective seal between the glove and garment in critical environments.

- Heavy liner for easy separation
- Available in 50,8 or 76,2 mm widths
- Gamma irradiated with full lot traceability

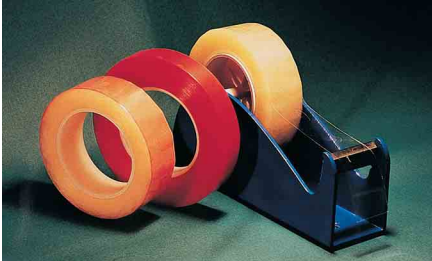
Length: 46 cm

Packaging: Each double bagged pack contains two strips of tape.

Description	Width (mm)	Pk	Cat. No.
Cleanroom Tape, M-Zone™ CuffStrip™, white, irradiated	50,8	200 PAIR	113-0884
Cleanroom Tape, M-Zone™ CuffStrip™, white, irradiated	76,2	200	113-0781
Cleanroom Tape, M-Zone™ CuffStrip™, Super tack version for emergency operation and first responder kits, dark blue, irradiated	50,8	200 PAIR	819-0033



Tape, double sided
UltraTape



Polyester

Ideal for signs, name-plate mounting, or for connecting plastic sheeting pieces in cleanroom wall construction.

- Clear, with disposable red Mylar™ liner
- Permanent adhesive (will leave residue when removed)

Length: 33 m

Description	Width (mm)	Sterile	Pk	Cat. No.
Double sided tape, permanent adhesive	25,00	+	1 Roll	817-0074



Cleanroom tapes



Vinyl

A multipurpose vinyl tape for general use in cleanroom maintenance and support areas.

- Ideal for sealing, aisle marking, and batching
- Matt finish which can be written on with a cleanroom pen
- Wound on a plastic core, marked for fast identification and re-ordering

Length: 32,92m

Packaging: Tape is single bagged, with an easy tear perforated bag.

Description	Width (mm)	Sterile	Colour	Pk	Cat. No.
Cleanroom Tape	25,40	+	White	1 Roll	817-0051
Cleanroom Tape	50,80	+	White	1 Roll	817-0076
Cleanroom Tape	25,40	-	Transparent	36 Roll	817-0058



Tape, vinyl, industrial grade



Processed in a controlled environment, tapes are wound on a plastic core and single bagged. Ideal for wheel taping and colour coding applications such as spray bottle identification.

- Forms strong bond without leaving adhesive residue
- Can be written on with cleanroom pen
- Different colours available

Description	Width (mm)	Length (m)	Colour	Pk	Cat. No.
Polyethylene tape, industrial grade	5,0	32,9	Black	1 Roll	817-0231
Polyethylene tape, industrial grade	5,0	32,9	Transparent	1 Roll	817-0233
Polyethylene tape, industrial grade	5,0	32,9	White	1 Roll	817-0234
Polyethylene tape, industrial grade	5,0	32,9	Dark Blue	1 Roll	817-0232
Polyethylene tape, industrial grade	6,4	32,9	Black	1 Roll	817-0228
Polyethylene tape, industrial grade	6,4	32,9	Transparent	1 Roll	817-0229
Polyethylene tape, industrial grade	6,4	32,9	White	1 Roll	817-0230
Polyethylene tape, industrial grade	12,7	32,9	Black	1 Roll	817-0219
Polyethylene tape, industrial grade	12,7	32,9	Transparent	1 Roll	817-0225
Polyethylene tape, industrial grade	12,7	32,9	White	1 Roll	817-0226
Polyethylene tape, industrial grade	12,7	32,9	Brown	1 Roll	817-0220
Polyethylene tape, industrial grade	12,7	32,9	Dark Blue	1 Roll	817-0221
Polyethylene tape, industrial grade	12,7	32,9	Dark Green	1 Roll	817-0222
Polyethylene tape, industrial grade	12,7	32,9	Orange	1 Roll	817-0223
Polyethylene tape, industrial grade	12,7	32,9	Red	1 Roll	817-0224
Polyethylene tape, industrial grade	12,7	32,9	Yellow	1 Roll	817-0227
Polyethylene tape, industrial grade	19,0	32,9	Black	1 Roll	817-0249
Polyethylene tape, industrial grade	19,0	32,9	Transparent	1 Roll	817-0253
Polyethylene tape, industrial grade	19,0	32,9	White	1 Roll	817-0254
Polyethylene tape, industrial grade	19,0	32,9	Dark Blue	1 Roll	817-0250
Polyethylene tape, industrial grade	19,0	32,9	Light Green	1 Roll	817-0251
Polyethylene tape, industrial grade	19,0	32,9	Red	1 Roll	817-0252
Vinyl tape, industrial grade	25,4	32,9	Black	1 Roll	817-0086
Polyethylene tape, industrial grade	25,4	32,9	Orange	1 Roll	817-0235
Polyethylene tape, industrial grade	25,4	32,9	Dark Blue	1 Roll	817-0087
Polyethylene tape, industrial grade	25,4	32,9	Dark Green	1 Roll	817-0088
Polyethylene tape, industrial grade	25,4	32,9	Light Blue	1 Roll	817-0089
Polyethylene tape, industrial grade	25,4	32,9	Light Green	1 Roll	817-0090
Polyethylene tape, industrial grade	25,4	32,9	Orange	1 Roll	817-0091
Polyethylene tape, industrial grade	25,4	32,9	Purple	1 Roll	817-0092
Polyethylene tape, industrial grade	25,4	32,9	Red	1 Roll	817-0093
Polyethylene tape, industrial grade	25,4	32,9	Transparent	1 Roll	817-0236
Polyethylene tape, industrial grade	25,4	32,9	Yellow	1 Roll	817-0094
Polyethylene tape, industrial grade	25,4	32,9	Yellow	1 Roll	817-0237
Polyethylene tape, industrial grade	50,8	32,9	Black	1 Roll	817-0238

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Description	Width (mm)	Length (m)	Colour	Pk	Cat. No.
Polyethylene tape, industrial grade	50,8	32,9	Transparent	1 Roll	817-0247
Polyethylene tape, industrial grade	50,8	32,9	Dark Blue	1 Roll	817-0240
Polyethylene tape, industrial grade	50,8	32,9	Brown	1 Roll	817-0239
Polyethylene tape, industrial grade	50,8	32,9	Orange	1 Roll	817-0244
Polyethylene tape, industrial grade	50,8	32,9	Dark Green	1 Roll	817-0241
Polyethylene tape, industrial grade	50,8	32,9	Yellow	1 Roll	817-0248
Polyethylene tape, industrial grade	50,8	32,9	Light Blue	1 Roll	817-0242
Polyethylene tape, industrial grade	50,8	32,9	Light Green	1 Roll	817-0243
Polyethylene tape, industrial grade	50,8	32,9	Purple	1 Roll	817-0245
Polyethylene tape, industrial grade	50,8	32,9	Red	1 Roll	817-0246
Polyethylene tape, industrial grade	19,0	32,9	Yellow	1 Roll	817-0255
Polyethylene tape, industrial grade	76,2	32,9	Black	1 Roll	817-0256
Polyethylene tape, industrial grade	76,2	32,9	Transparent	1 Roll	817-0259
Polyethylene tape, industrial grade	76,2	32,9	White	1 Roll	817-0260
Polyethylene tape, industrial grade	76,2	32,9	Dark Blue	1 Roll	817-0257
Polyethylene tape, industrial grade	76,2	32,9	Red	1 Roll	817-0258
Polyethylene tape, industrial grade	76,2	32,9	Yellow	1 Roll	817-0261

Cleanroom tapes, LDPE and acrylic adhesive
ITW Texwipe



The TPA series is constructed from a low density polyethylene (LDPE) backing with an acrylic adhesive. This is low in halogens, leachable chlorides and heavy metals, providing users with the ideal cleanroom tape solution. TPA cleanroom tape is ideal for colour coding and product identification, and its high conformability makes it well suited for sealing and packaging materials in critical environments. The tapes are uniquely packaged in press-and-seal cleanroom bags providing additional convenience for end users.

- Acrylic adhesive
- Latex-free
- High conformability, adhesion and cohesion
- Packaged in reusable press-and-seal cleanroom bags

Description	Width (mm)	Sterile	Colour	Pk	Cat. No.
Cleanroom tape, acryl adhesive	12,70	-	Blue	96 Roll	817-0262
Cleanroom tape, acryl adhesive	12,70	-	Clear	96 Roll	817-0263
Cleanroom tape, acryl adhesive	12,70	-	Green	96 Roll	817-0264
Cleanroom tape, acryl adhesive	12,70	+	Orange	96 Roll	817-0266
Cleanroom tape, acryl adhesive	12,70	-	Orange	96 Roll	817-0265
Cleanroom tape, acryl adhesive	12,70	+	White	96 Roll	817-0268
Cleanroom tape, acryl adhesive	12,70	-	White	96 Roll	817-0267
Cleanroom tape, acryl adhesive	25,40	-	Clear	48 Roll	817-0271
Cleanroom tape, acryl adhesive	25,40	-	White	48 Roll	817-0277
Cleanroom tape, acryl adhesive	25,40	+	Blue	48 Roll	817-0270
Cleanroom tape, acryl adhesive	25,40	-	Blue	48 Roll	817-0269
Cleanroom tape, acryl adhesive	25,40	+	Clear	48 Roll	817-0272
Cleanroom tape, acryl adhesive	25,40	+	Green	48 Roll	817-0274
Cleanroom tape, acryl adhesive	25,40	-	Green	48 Roll	817-0273
Cleanroom tape, acryl adhesive	25,40	+	Orange	48 Roll	817-0276
Cleanroom tape, acryl adhesive	25,40	-	Orange	48 Roll	817-0275
Cleanroom tape, acryl adhesive	25,40	+	White	48 Roll	817-0278
Cleanroom tape, acryl adhesive	50,80	+	Blue	24 Roll	817-0280
Cleanroom tape, acryl adhesive	50,80	-	Blue	24 Roll	817-0279
Cleanroom tape, acryl adhesive	50,80	+	Clear	24 Roll	817-0282
Cleanroom tape, acryl adhesive	50,80	-	Clear	24 Roll	817-0281
Cleanroom tape, acryl adhesive	50,80	+	Green	24 Roll	817-0284
Cleanroom tape, acryl adhesive	50,80	-	Green	24 Roll	817-0283
Cleanroom tape, acryl adhesive	50,80	+	Orange	24 Roll	817-0286
Cleanroom tape, acryl adhesive	50,80	-	Orange	24 Roll	817-0285
Cleanroom tape, acryl adhesive	50,80	+	White	24 Roll	817-0288
Cleanroom tape, acryl adhesive	50,80	-	White	24 Roll	817-0287
Cleanroom tape, acryl adhesive, perforated	50,80	-	White	24 Roll	817-0289
Cleanroom tape, acryl adhesive	76,20	+	Blue	16 Roll	817-0291
Cleanroom tape, acryl adhesive	76,20	-	Blue	16 Roll	817-0290
Cleanroom tape, acryl adhesive	76,20	+	Clear	16 Roll	817-0293
Cleanroom tape, acryl adhesive	76,20	-	Clear	16 Roll	817-0292
Cleanroom tape, acryl adhesive	76,20	+	Green	16 Roll	817-0295
Cleanroom tape, acryl adhesive	76,20	-	Green	16 Roll	817-0294

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Description	Width (mm)	Sterile	Colour	Pk	Cat. No.
Cleanroom tape, acryl adhesive	76,20	-	Orange	16 Roll	817-0296
Cleanroom tape, acryl adhesive	76,20	+	White	16 Roll	817-0298
Cleanroom tape, acryl adhesive	76,20	-	White	16 Roll	817-0297

Floor marking tape, hazard warning
UltraTape



Polyester overlaminated on vinyl

UltraTape cleanroom tapes are designed for critical environment construction and support applications. UltraTape tapes can be used for floor marking and colour coding. Cleanroom coloured and striped hazard warning tapes help designate the OSHA critical areas in cleanrooms.

- Designed for cleanroom use
- Chemical resistant, withstands regular wiping and moping
- Withstands foot, cart, and forklift traffic
- Long-term durability, colours do not fade
- Individually inspected
- Packaged and sealed in certified MDPE bags to prevent contamination

Packaging: Supplied double bagged

Description	Width (mm)	Length (m)	Pk	Cat. No.
Tape, hazard warning, black/yellow	25,4	16,5	6 Roll	116-0432
Tape, hazard warning, black/yellow	50,8	16,5	3 Roll	819-1700
Tape, hazard warning, green/white	50,8	16,5	3 Roll	116-0434
Tape, hazard warning, red/white	50,8	16,5	3 Roll	116-0435
Tape, hazard warning, black/yellow	76,20	16,5	1 Roll	116-0433

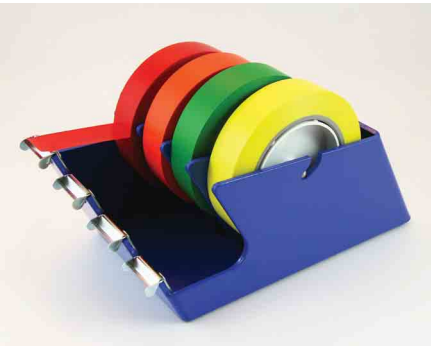
Tape dispenser, stainless steel
UltraTape



These dispensers are made from industrial 304 grade stainless steel with a mounting bracket on the bottom. It is corrosion resistant and the replaceable serrated blade is electroplated chrome buffed to a dull shine. It is designed to hold one roll, with a 76 mm core, up to 50,8 mm width and 201,2 metres in length.

Description	Width (mm)	Pk	Cat. No.
Dispenser, stainless steel, grey	51	1	817-0311

Tape dispenser, multiple roll
UltraTape



This multiple roll dispenser is designed to hold four rolls of up to 25,4 mm width and 201,2 metres in length.

Delivery information: Supplied with four 76 mm plastic core holders.

Description	Width (mm)	Pk	Cat. No.
Multi roll dispenser, blue	25	1	817-0310

Tape dispenser, single roll
UltraTape



UltraTape single roll dispenser is designed to hold one roll up to 50,8 mm width and 201,2 metres in length. The dispenser is supplied with a 76 mm plastic core holder.

Description	Width (mm)	Pk	Cat. No.
Single roll dispenser, blue	51	1	817-0309



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Cleanroom pens
Micronova



Poly barrel, low-sodium ink

Designed with a special poly barrel to limit particle generation.

- For cleanroom and cleanroom support applications
- In black, blue or red
- Also available irradiated

Description	Colour	Sterile	Pk	Cat. No.
Pen	Black	+	10	818-0550
Pen	Black	-	10	818-0243
Pen	Black	+	100	811-0168
Pen	Black	+	12	811-0170
Pen	Black	-	1	811-0169
Pen	Red	+	10	818-0552
Pen	Red	-	10	811-0167
Pen	Blue	+	10	818-0551
Pen	Blue	-	10	818-0244
Pen	Blue	+	12	811-0172
Pen	Blue	-	1	811-0171



Cleanroom marker Sharpie®
Micronova



Fine point marker

The industry standard, original pen style permanent marker.

- Marks permanently on most surfaces
- Fade and water resistant ink
- Quick drying, non toxic alcohol-based ink formula

Packaging: Double bagged, gamma irradiated

Description	Colour	Sterile	Pk	Cat. No.
Marker	Black	+	12	811-0122
Marker	Blue	+	12	811-0173
Marker	Black	+	12	811-0174
Marker	Blue	+	12	811-0175
Marker	Red	+	12	811-0176

Marker pen, LabMarker
Micronova



LabMarkers feature permanent ink that marks on cold or wet surfaces, plastic bags or disposable labware. Marks will not smear on reusable glass, metal or porcelain labware but can be scrubbed off.

- Fine tip, black ink
- Permanent on most surfaces
- Alcohol resistant
- Fast drying
- Available gamma irradiated

Description	Colour	Pk	Cat. No.
LabMarker, fine tip	Black	10	811-0177
LabMarker, fine tip, irradiated	Black	10	811-0178



MATS AND FLOORING

Adhesive mats	174
Permanent mats and flooring	176

Mats and flooring

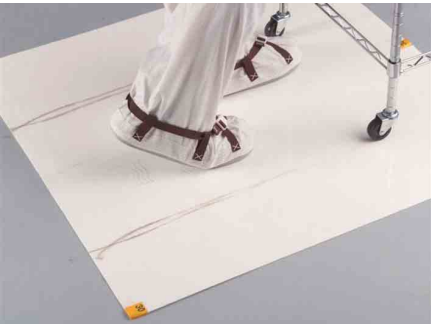
Dust- and particle-collecting mats and special flooring to prevent contamination in cleanrooms.

Particles have a basic tendency to settle on flat surfaces, due to the varying adhesion factors throughout the cleanrooms and strongly influenced by the airflow characteristics. The flooring is the final location where particles settle or remain as captured contamination.

Adhesive mats, permanent mats and special floor coverings are essential to control particle contamination in front of the cleanroom. For optimal effective control of contamination in cleanrooms and controlled environments, the combination of permanent mats, special flooring and adhesive mats is highly recommended.



Multi layer adhesive floor mats, PureStep



A choice of either 30 or 60 layer adhesive entrance mats are manufactured from low density polyethylene. The mats control contamination by removing debris from the soles of shoes and the wheels of transport containers. When one layer is dirty, simply remove by the numbered corner tab, leaving a fresh layer ready for use.

- Antimicrobial agent protects against the growth of bacteria and fungi
- Non-slip, low profile, individually numbered layers
- Reduced maintenance and cleaning costs

Colour: Clear, white, grey or blue

LxW (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Adhesive film mats, PureStep, 30 layers				
457x914	1,8	Blue	8	115-0055
457x914	1,8	Grey	8	115-0056
457x914	1,8	White	8	115-0057
457x1143	1,8	Blue	8	115-0061
457x1143	1,8	Grey	8	115-0062
457x1143	1,8	White	8	115-0063
610x762	1,8	Blue	4	115-0047
610x762	1,8	Clear	4	115-0048
610x762	1,8	Grey	4	115-0049
610x762	1,8	White	4	115-0050
610x914	1,8	Blue	8	115-0067
610x914	1,8	Grey	8	115-0068
610x914	1,8	White	8	115-0069
660x1143	1,8	Blue	8	115-0073
660x1143	1,8	Grey	8	115-0074
660x1143	1,8	White	8	115-0075
914x914	1,8	Blue	8	115-0079
914x914	1,8	Grey	8	115-0080
914x914	1,8	White	8	115-0081
914x1143	1,8	Blue	8	115-0085
914x1143	1,8	Grey	8	115-0086
914x1143	1,8	White	8	115-0087
914x1524	1,8	Blue	4	115-0091
914x1524	1,8	Grey	4	115-0092
914x1524	1,8	White	4	115-0093
Adhesive film mats, PureStep, 60 layers				
457x914	1,8	Blue	4	115-0058
457x914	1,8	Grey	4	115-0059
457x914	1,8	White	4	115-0060
457x1143	1,8	Blue	4	115-0064
457x1143	1,8	Grey	4	115-0065
457x1143	1,8	White	4	115-0066
610x762	1,8	Blue	4	115-0051
610x762	1,8	Clear	4	115-0052
610x762	1,8	Grey	4	115-0053
610x762	1,8	White	4	115-0054
610x914	1,8	Blue	4	115-0070
610x914	1,8	Grey	4	115-0071
610x914	1,8	White	4	115-0072
660x1143	1,8	Blue	4	115-0076
660x1143	1,8	Grey	4	115-0077
660x1143	1,8	White	4	115-0078
914x914	1,8	Blue	4	115-0082

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LxW (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Adhesive film mats, PureStep, 60 layers				
914x914	1,8	Grey	4	115-0083
914x914	1,8	White	4	115-0084
914x1143	1,8	Blue	4	115-0088
914x1143	1,8	Grey	4	115-0089
914x1143	1,8	White	4	115-0090
High tack mats, PureStep, 30 layers				
457x1143	1,8	Blue	8	115-0167
457x1143	1,8	White	8	115-1774
660x1143	1,8	Blue	8	115-1775
660x1143	1,8	White	8	115-1776
High tack mats, PureStep, 60 layers				
660x1143	1,8	White	4	115-0168
914x1143	1,8	White	4	115-0169



Mat frames for PureStep mats

These frames are designed to be used with the PureStep mats to create a system that is ideal for any critical area that does not allow direct adhesion to the flooring surface. The frames are constructed of a hard, rigid, polystyrene base material combined with a non skid backing that holds the mats in place on almost any surface.

- Protect floors from adhesive residue from the mats
- Reduces the risk of slips and falls
- Non-slip parts made from polymer coated polyester textile
- Naturally antimicrobial, mould and mildew resistant

Description	For	LxW (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Mat frame	457x914 mm	508x965	3,2	White	1	115-1287
Mat frame	457x1143 mm	508x1194	3,2	White	1	115-1288
Mat frame	609x914 mm	660x965	3,2	White	1	115-1289
Mat frame	660x1143 mm	711x1193	3,2	White	1	115-1290
Mat frame	914x914 mm	965x965	3,2	White	1	115-1291
Mat frame	914x1524 mm	965x1574	3,2	White	1	115-1292
Mat frame	914x1140 mm	965x1194	3,2	White	1	115-1296



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Permanent cleanroom mats, B'Mat



Permanent mats are installed to provide the highest level of cleanliness. The life of the mats strongly depend on the volume and degree of cleanliness of the foot and wheeled traffic. Solvent-based cleaning materials should on no account be used on these mats: they will adversely affect both the function and the appearance. To avoid risk of slipping, it is also important that both the mats and the flooring should be completely dry.

- Patented polymer (bacteriostatic, ESD, non outgassing)
- Attracts and retains over 98% of foot-borne and wheel-borne particles
- Bevelled edges on all 4 sides, operators can walk without tripping and carts can be pushed without effort
- To restore its full efficacy, just mop, rinse and dry it
- Weight resistance: 84 kg/cm² (compatible with foot traffic, but also with light hand-trucks)
- Heat resistance: Use between 0°C and 50°C
- Backed with strips of double sided adhesive tape, allowing them to be fixed on the floor, if necessary

Colour: Blue

LxW (mm)	Thickness	Colour	Pk	Cat. No.
500x800	2,5	Blue	1	115-1842
600x1200	2,5	Blue	1	115-1836
800x900	2,5	Blue	1	115-1837
900x1200	2,5	Blue	1	115-1834
940x1850	2,5	Blue	1	115-1831
1000x1200	2,5	Blue	1	115-1807
1000x1500	2,5	Blue	1	115-1840
1000x2000	2,5	Blue	1	115-1847
1000x2500	2,5	Blue	1	115-1833
1100x1200	2,5	Blue	1	115-1841
1200x1400	2,5	Blue	1	115-1835
1200x1500	2,5	Blue	1	115-1832
1200x2000	2,5	Blue	1	115-1808
1200x3000	2,5	Blue	1	115-1801
1200x3100	2,5	Blue	1	115-1838
1200x3900	2,5	Blue	1	115-1839
1200x4000	2,5	Blue	1	115-1802

Cleanroom flooring, b'mat



Decontamination flooring b'mat uses a patented polymer to attract and retain over 98% of foot-borne and wheel-borne particles. Particles are naturally attracted by the flooring surface, and are released only by wet cleaning. Decontamination flooring b'mat needs to be glued to the floor, which ensures a perfect hold and maximum lifespan. Ideal solution for contamination control in gowning areas, in material entry zones, and in cleanrooms.

- To restore to full efficacy, just mop, rinse and dry
- Low profile (2,5 mm thick) and bevelled edges made from PVC welded on all sides prevents tripping and carts can be pushed without effort
- Exceptional weight resistance: Ideal not only for foot traffic, but also heavy lift- or hand-trucks
- Core properties of polymer: Bacteriostatic, ESD, non outgassing, chemical resistant

Coefficient of friction: 2,02 (ASTM C1028), 4,05 (Tortus)

Load resistance: 84 kg/cm²

Heat resistance: Use between 0°C and 50°C

Surface resistivity: 108 Ω/cm²

Colour: Blue

Type	LxW (mm)	Colour	Pk	Cat. No.
Cleanroom flooring	1200x2000	Blue	1 m	115-1822



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DETERGENTS AND DISINFECTANTS

Disinfectant surface 178



Detergents, disinfectants, hand care



Sterile solutions for every application in cleanrooms and controlled environments

In order to fulfil the requirements of all cleanrooms in terms of disinfection, cleaning and hygiene, we provide a wide range of solutions, adapted to each application.

Our products, carefully selected by our trained staff to fit your specific needs, will allow you to improve the efficiency, reliability and reproducibility of your decontamination processes, in compliance with relevant norms and standards.

To help you comply with regulatory requirements and industry standards, all of our cleanroom detergents and disinfectants feature the following characteristics:

- Standardised formulations, so you can use the same product in all your european sites
- Protected formulations, to guarantee you will not need to re-validate the product unless they are force-majeure cases
- Manufactured to GMP standards, with full batch traceability
- Detergents comply with REACH and EC regulation 648/2004
- Disinfectants are tested against the relevant european norms for biocidal activity
- Full technical documentation

Sterile solutions for surfaces in cleanrooms



In Grade A and B cleanrooms, disinfectants and detergents must be sterile. Our products are formulated and manufactured according to GMP standards. They are available with extensive technical documentation and supplied with certificates of analysis and sterility.

The solutions are filtered to 0,2 µm before filling and packing in cleanroom conditions and are either aseptically filled or terminally irradiated.

Neutral detergent

- High foaming liquid detergent, neutral pH
- 0,2 µm filtered, gamma irradiated, double bagged
- Supplied with certificates of analysis, irradiation and sterility
- Unit: 100x 30 ml or 50x 50 ml concentrate

Ethanol and IPA

- Broad spectrum disinfectant
- Passes CEN 1276, CEN 1650 and CEN 13697
- 0,2 µm filtered, gamma irradiated (900 ml) or aseptically filled (5 l), double bagged
- Supplied with certificates of analysis, sterility and irradiation where applicable
- Denatured ethanol: 70% ethanol, 30% water (WFI) denatured with IPA
- Isopropyl alcohol: 70% isopropyl alcohol, 30% water (WFI)
- Also available as an aerosol with purified water
- Unit: 6x900 ml spray bottle, 6x1 l spray bottle, 4x5 l or 2x5 l canister, 12x300 ml aerosol

Special disinfectants

- Two-part chlorine dioxide generating system
- Passes CEN 1276, CEN 1650, CEN 13697 and CEN 13704
- 0,2 µm filtered, aseptically filled and double bagged
- Supplied with certificates of analysis and sterility
- Based on chlorine dioxide
- Compatible in rotation with amphoteric disinfectants
- Effective against spores within only 5 - 8 minutes!
- Unit: 25 x (2x100 ml) concentrate, 4 x (4,9 l + 100 ml) ready-to-use

Amphoteric disinfectants

- Highly effective surface active disinfectant
- Passes CEN 1276, CEN 1650 and CEN 13697
- 0,2 µm filtered, aseptically filled and double bagged
- Supplied with certificates of analysis and sterility
- Validated HPLC and Titration test methods available
- Compatible in rotation with a sporicidal or QAC disinfectant
- Unit: 50x50 ml or 50x100 ml concentrate, 6x900 ml spray bottle, 4x5 l or 2x5 l canister

Quaternary ammonium disinfectants

- Highly effective surface active disinfectant based on Quats
- 0,2 µm filtered, aseptically filled and double bagged
- Supplied with certificates of analysis and sterility
- Highly compatible with materials
- For a broad range of applications
- Unit: 50x25 ml or 50x100 ml concentrate, 6x900 ml spray bottle, 4x5 l or 2x5 l canister

Non sterile solutions for surfaces and CIP



We offer a broad range of non sterile detergents and disinfectants for surfaces and for Cleaning-In-Place (CIP) systems.

Since non sterile products offered vary from country to country, this page provides an overview of the available product groups. Our sales team will be glad to provide you with information on availability of products in your region and their suitability for your specific application.

Detergents for surfaces:

- Alkaline high foam surface detergents
- Neutral high foam all-purpose detergents
- Non foaming heavy duty floor detergents, to be used manually or with auto-scrubbing machines

Detergents - CIP:

- Alkaline CIP detergents, for removal of organic soils, including fats and oils
- Acidic CIP detergents, for removal of organic and inorganic soils, particularly mineral and calcium deposits

Disinfectants for surfaces:

- Disinfecting detergents based on quaternary ammonium bonds
- Broad spectrum non sporicidal disinfectants for final disinfecting

Disinfectants - CIP:

- CIP disinfectants, based on peracetic acid
- CIP disinfectants, based on sodium hypochlorite

Disinfectants, soaps and creams



For skin and hand care in cleanrooms and controlled environments

Hand hygiene is particularly important in cleanrooms and controlled environments, where the operators manipulate sensitive parts or are potentially exposed to pathogens. Also, wearing gloves several hours a day every day puts a high stress on the skin, which can lead to discomfort or even skin disease.

A good hand washing and disinfection programme, combined with regular application of a skin care products, results in better hygiene, tackles cross-contamination and reduces health issues.

Many different brands and products are available, but can differ from country to country. Packaging and dispensing systems are also elements of choice. Our sales team will be glad to assist you in the selection of the best solution for your application in your cleanroom and controlled environment.

Liquid soaps

Mild, synthetic soap lotions, suitable for frequent hand washing.
Available without dyes and fragrances or mildly scented.

Skin care creams

Silicon-free oil/water emulsions, based on waxes that prevent dry and irritated skin. Dermatologically tested.

Disinfectants

Effective disinfection and prevention of skin irritation.
Available with ethanol base also 2- and 1-propanol base.



Operational excellence streamlined solutions

For over 160 years, our customers have been challenged with finding the answers that help improve lives. Our mission is to identify product and service solutions, while eliminating process complexities to help labs and production facilities to work better and faster.

Through our global reach and knowledgeable teams, we proudly excel in delivering solutions that improve productivity, accelerate discovery and encourage innovation.

Operational excellence delivered by
a team of people focussed on your success.
Together, We Enable Science





CLEANING SYSTEMS

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Cleanroom cleaning systems

The cleaning process is primarily dependant on the four factors of Dr. Sinner's circle ('Sinner'scher Kreis'). Cleaning tools and auxiliary materials are selected in consideration of these factors. Furthermore, the nature of the surface to be cleaned determines the cleaning methods employed.

Chemical

First the cleaning process is initiated through the help of active agents in the detergent. Active agents ensure that the bonding forces are neutralised, so that the loose contaminants as well as the bonding contaminants can be removed. The water content serves in this regard as a carrier substance for transporting the contaminants.

Time

This factor represents the period between the application of the detergent or the cleaning bath and the removal of the dirt. In cleanrooms this factor can be almost disregarded, because on the one hand, a far lesser accumulation of dirt can be expected compared to industrial flooring. On the other hand, based on the surface condition, often the wet wiping method is used for cleaning.

Temperature

Certain types of contamination can be more effectively loosened with warm water rather than with cold water.

Mechanical

Through the use of optimal mechanical action, it is possible to reduce the start up time and thus accelerate the cleaning process. This factor can be disregarded based on the "low" contamination. Only a manually attached mechanical action is employed with the wiping process to keep possible particle generation or turbulence as low as possible.



Modular cart with flat bed, AlphaMop™
ITW Texwipe



Cart

For use with AlphaMop™ stainless steel and plastic rectangular buckets, this cart has a protective side to keep your buckets in place and capture spills. Approved for use in the food industry. Autoclave safe. Use cart extension (TX7046E) to create a three bucket system.

Stainless steel bucket

This seamless, stainless steel bucket is designed for use in critical manufacturing. Made from 100% Type 304 stainless steel.

- Autoclave safe
- Interior volume marks allow for accurate dilution
- Select the stainless steel cart TX7046 and optional cart extension (TX7046E) to make a convenient three bucket system

Description	Capacity	Pk	Cat. No.
Stainless steel cart, TX7046, for transporting buckets and bucket systems. Compatible with all AlphaMop™ buckets	-	1	141-1050
Cart extender, converts TX7046 into a 3-bucket system, stainless steel with casters, TX7046E	-	1	141-1051
Rectangular bucket 7 gallons, 100% stainless steel, TX7054 (LxWxH: 530x330x200 mm)	-	-	-
Designed for use with Texwipe AlphaMop and other common cleanroom flat mops (maximum dimensions: 450x240 mm)	28	1	141-1052
Sterile bucket liners for use with Texwipe buckets (not recommended for TX7054 and TX7063)	-	50	141-1045



Cleanroom buckets, round, with casters
ITW Texwipe



Stainless steel, Type 304

Round buckets for string mops.

- Very good chemical resistance, very good thermal resistance
- High quality, very stable
- Seamless design reduces contamination
- Autoclave safe

Capacity (l)	Pk	Cat. No.
30	1	216-1698
37	1	216-1699



Cleaning trolleys, Clino® CR3 / CR5, with flat wringer
Pfennig



CR3

For areas with the highest requirements on GMP conformity. Made entirely of stainless steel.

- Convenient for the use in cleanrooms
- GMP-conformity
- Complete unit can be autoclaved
- Highly efficient cleaning and disinfection
- Assured cross-contamination prevention
- Object-specific adjustments are possible
- Flat mopping allows a significant reduction of working time with a much better ergonomic work process

Description	WxDxH (mm)	Colour	Pk	Cat. No.
Dual-bucket trolley, Clino® CR3 FP-GMP, in stainless steel, with Ringo CR flat wringer and one trough each for fresh/used mop covers – for areas with the highest requirements on GMP conformity	850x500x980	Grey	1	141-1041
Dual-bucket trolley, Clino® CR5 FP-GMP, in stainless steel, with Ringo CR flat wringer, 3 buckets and waste material unit 2x70 l - for areas with the highest requirements on GMP conformity	1280x500x1030	Grey	1	141-1044

EasyMop GMP®

Reliable cleaning and disinfection
of cleanrooms

easy and safe

PPS Pfennig –
solutions for highly sensitive areas

More than 15 years of experience in
cleaning systems for cleanrooms

- Safety and validity:
by qualification of Fraunhofer IPA
- GMP compliance:
approved for GMP A – D areas
and cleanrooms with high
requirements
- Highest efficiency:
by intelligent process design
- Safe avoidance of
cross contamination:
touchless mop system,
no open water
- Process safety:
no chance for wrong operation
- Easy to learn:
self explaining operations



Made in Germany



Cleaning trolley Clino®, CR-1 EM-CR, with EasyMop CR
Pfennig



The CR model range is suitable for zones where materials do not require treatment with an autoclave. Base frame, attachments, grips and flat wringer are made from high quality steel and buckets from polypropylene.

EasyMop system box enables the compliance of all provisions in cleaning and decontamination of cleanrooms.

- Convenient for use in cleanrooms
- Highly efficient cleaning and disinfection
- The patent-registered MopJump-system with displacement area enables easy impregnation of the mop head as well as a contact-free pick up
- Easy and secure closing
- Assured cross-contamination prevention
- Available in five colours to implement a five-area-concept (please contact your local VWR sales office for further information)
- Single-stage wiping process

Description	WxDxH (mm)	Colour	Pk	Cat. No.
Trolley with 2 EasyMop system boxes and waste disposal 1x35 l, for cleanroom areas	610x540x710	Blue	1	141-1040

Cleaning trolleys, Clino®, CR6 FP series, with flat wringer
Pfennig



Process reliability and efficiency in technical cleanrooms.

- ISO-conformity
- Highly efficient cleaning
- Assured contamination prevention
- Ergonomic

Description	WxDxH (mm)	Pk	Cat. No.
Dual-bucket system trolley Clino® CR6s, with stainless steel flat wringer, stainless steel basket for 4x6 l buckets, 2x15 l buckets, 4x6 l buckets with stainless steel handle	650x580x1040	1	141-1043



Mopping system Clino®, with special mops, for cleanroom cleaning
Pfennig



100% polyester microfibre yarn (0,5 De)

- Suitable for cleaning and disinfection of GMP areas
- Maximum efficiency due to incorporated microfibres
- Washable and autoclavable (up to 50 treatment cycles)
- For flat wringer Ringo CR

Description	Colour	Length (cm)	Pk	Cat. No.
Mops				
Cleanroom mop MicroSicuro CR, 100% PES super microfibre with special soft brush stripes, also suitable for pre-preparation, not autoclavable	White/Blue	40	1	141-1034
Cleanroom mop MicroSicuro CR/A, in 100% PES super microfibre with special soft brush stripes, suitable for impregnation, autoclavable	White/Blue	40	1	141-1035
Cleanroom mop, King® CR, 100% polyester microfibre yarn, made to match Ringo flat wringer GMP, autoclavable	White	40	1	141-1036
Cleanroom mop, King® Lord, in PES microfibre loop material, micro-filaments for highest cleaning performance, made to match flat Ringo wringer GMP, autoclavable	White	40	1	141-1037
Cleanroom mop, pre-washed, King® CR_MG, PES microfibre loop material, individually packed, autoclavable	White	40	1	141-1038
Mop frame				
Stainless steel mop frame (according GMP requirements)	Grey	40	1	141-1039



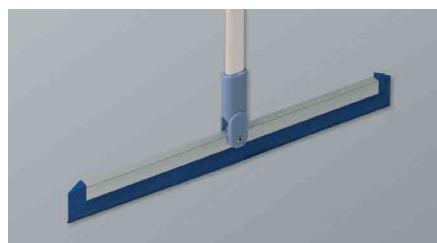
Microfibre Mop cleaning system



129-0451



129-0456



129-0459

The VWR® Microfibre Mop cleaning system offers a total cleaning solution for floors, walls and ceilings. This system does not require any specific training as it is very simple and flexible to use.

The VWR® Microfibre Mop cleaning system consists of:

- a stainless steel trolley equipped with a choice of either 2 or 3 buckets
- an ergonomic flat wringer
- an ergonomic telescopic handle and mop frame
- low friction microfibre VWR® controlled environment mops

All components are autoclavable.

- Cost effective: One mop can clean up to 25 m²
- Ergonomic and easy to use
- Depending on the need, the mop-frame unit can be inserted in the flat wringer in order to get the desired mop moisture: Wet for disinfection or moist for cleaning

The VWR® controlled environment microfibre mop:

Made from 100% PES microfibre. Laser cut for lint-free ends.

- Excellent mechanical cleaning performance
- For floors, walls and ceilings
- Heat and chemical resistant, suitable for sterilisation (autoclave or radiation)

Complies with both ISO Class 5 and GMP A+B requirements.

Description	Dimensions (mm)	Pk	Cat. No.
Mops			
VWR® Microfibre Mop cover - microfibre, 50 cm		1	129-0451
Handle and mop frames			
Aluminium telescopic handle		1	129-0456
Sweep Duo Press		1	129-0455
Sweep Duo Mop Frame		1	129-0457
Dustpans			
Squeegee 35 cm		1	129-0459
Dustpan		1	129-0460
Dustpan brush 25 cm with handle		1	129-0839
Buckets			
Bucket 6 l		1	129-0458
Bucket 25 l		1	129-0454
CE bucket trolley			
CE bucket system trolley, without accessories, suitable for autoclaving and ISO class 5	770x710x948	1	141-0937

Compact double bucket system Contec



Stainless cart with removable handle and two 5 gallon (20 l) polypropylene buckets

This bucket system features a stainless steel rolling cart with two autoclavable polypropylene buckets, one grey and one red, and options for a heavy-duty stainless steel downpress wringer or flat mop wringer (purchased separately). Compact design improves manoeuvrability and reduces storage space. The 2757 cart features a removable handle for easier autoclaving and storage.

The durable yet lightweight cart has four casters, two fixed and two that swivel and lock easily with the touch of a foot. The system can be used with two or three buckets, depending upon the cleaning protocols. An extendable frame pulls out of the front of the cart to accommodate an additional bucket. Included stainless steel connecting kit prevents drips between buckets.

- Ideal for cleanrooms and controlled environments with small autoclaves or limited storage space
- Compatible with all Contec mops, depending upon wringer choice

Description	Capacity	Pk	Cat. No.
Stainless steel cart with two 5 gallon (20 l) with 2 PP buckets (red, grey), includes connecting kit and casters (wringer must be purchased separately)	-	1	141-0964
Bucket, PP, grey	20	1	141-0984
Bucket, PP, red	20	1	141-0985
Bucket, PP, blue	20	1	141-0986
Downpress wringer, stainless steel, for Edgeless mops and flat mops	-	1	141-0959
Sling-style wringer, Slinger™, stainless steel frame, mesh sling	-	1	141-0965

Double bucket system
Contec



Stainless cart without handle and two 20 litre (5 gallon) polypropylene buckets

This bucket system features a stainless steel rolling cart with two autoclavable polypropylene buckets, one grey and one red, and stainless steel drip cap.

Durable, yet lightweight construction makes the bucket system easy to manoeuvre around cleanrooms. Cart features 4 standard casters. The double bucket system allows for differentiation between cleaning and rinsing solutions.

The 20 l buckets are compatible with two types of sieves depending on the mop used. 2768 is a curved stainless steel sieve that is used with the EasyCurve™ mop. The 2767 flat stainless steel sieve works with Contec flat mops, such as VertiKlean MAX and QuickTask. Both sieves are used with the 2765 stainless steel frame designed to fit 20 l buckets.

- Compact lightweight design makes it ideal for smaller cleanrooms

Description	Pk	Cat. No.
Polypropylene double bucket system, two 5 gallon (20 l) buckets (grey, red), cart with standard casters	1	141-0969
Polypropylene double bucket system, two 5 gallon (20 l) buckets (grey, red), cart with heavy duty casters	1	141-0970
Stainless steel sieve frame, for 5 gallon (20 l) bucket	1	141-0966
Stainless steel sieve, flat, for Contec flat mops, requires 2765 base	1	141-0967
Stainless steel sieve, curved, for EasyCurve™ mops, requires 2765 base	1	141-0968



Mop systems, Edgeless®
Contec



Designed for wet mopping in controlled environments and cleanrooms for effective cleaning and retrieval of excess fluid. Ideal for use in sterile environments. Mop heads are constructed from a continuous tube of 100% polyester knitted fabric, looped to form strands that encapsulate liquids for maximum absorption.

- Mop heads are free from any cellulose contaminants
- Stainless bucket, downpress wringer and insert maximise wringing pressure and effectiveness
- All system components and buckets are compatible with gamma, ETO, and autoclave sterilisation

Mop heads are laundered and packaged in a ISO Class 4 (FED-STD-209E Class 10/M2.5) cleanroom.

Ordering information: All mop system components must be ordered separately. Plastic bucket systems include cart, buckets, wringer, and casters. Stainless steel bucket systems include trolley, buckets, wringer, and casters.

Description	Dimensions (mm)	Length (mm)	Capacity (l)	Pk	Cat. No.
Stainless steel two-bucket system with two 20 l buckets	-	-	2x20	1 SET	129-0210
Plastic two-bucket system with two 25 l buckets	-	-	2x25	1 SET	129-0211
Dynamate QuickConnect™ lightweight mop head frame	150x180	-	-	1	129-0206
Standard edgeless mop head, non sterile	-	-	-	1	115-0174
Handle with mop head frame, fibreglass, not autoclavable	-	1620	-	1	129-0260



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Double bucket carts, SlimT™ Micronova



Simple and effective double bucket system has a stainless steel frame with two 22,7 l polypropylene buckets (included).

- The entire unit can be autoclaved, including the buckets (C-7WH model only)
- 483 mm wide buckets makes cart suitable for use with a variety of mop heads
- Excellent manoeuvrability on wheels that rotate 360°
- Optional stainless steel SlimT™ wringer to wring out SlimLine, T-Mop, and other flat-pad mops

Description	Capacity (l)	Pk	Cat. No.
SlimT™ double bucket cart, standard system, C-7 (with 2 buckets included)	2×22,7	1	129-0063
SlimT™ double bucket cart, autoclavable system, C7-WH	2×22,7	1	141-0999

Description	Pk	Cat. No.
Accessories		
Replacement PP bucket, dark blue, B-7DB	1	216-1488
Replacement PP buckets, dark green, B-7 series	1	216-1489
Replacement PP buckets, red, B-7 series	1	141-0092
Replacement PP buckets, yellow, B-7 series	1	141-0093
Clear bucket liners, LDPE/Nylon, for B-7 bucket series (for controlled environments, uses include transport of product and waste disposal): 310×190 mm	1	141-0998
Clear bucket liners, LDPE/Nylon, gamma irradiated, for B-7 bucket series (for controlled environments, uses include transport of product and waste disposal): 310×190 mm	24	141-0091



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Cleanroom mopping system, b'Mop CleanPad



Mop CleanPad:

CleanPad mop has been designed to ease and improve the cleaning process for cleanroom floors, walls and ceilings. Used together with the CleanPad covers and foam pads, the CleanPad mop is the ideal solution for cleaning floors, walls and ceilings in all cleanroom environments.

- CleanPad mop features a lightweight, strong aluminium handle, which is advantageous for efficient cleaning of high-up surfaces
- The low profile swivel head allows cleaning even in hard-to-reach areas, and its large contact surface ensures maximum efficacy
- Handle is made of aluminium with plastic grip, the head is made of plastic

Mop cover CleanPad:

CleanPad mop covers are constructed from 100% single-knit continuous polyester filament. Due to a simple elasticated system, they can easily be installed and replaced over the CleanPad mop head (20×38 cm). Ultra clean and absorbent, the CleanPad mop covers are the best solution to clean walls, floors and ceilings in all cleanroom environments. In conjunction with the included foam pad, CleanPad mop covers ensure an efficient cleaning even on textured surfaces (the foam pads can also be ordered separately, allowing frequent replacement).

Ordering information: As applications differ, we offer a selection of aluminium or fibreglass handles (fixed length or telescopic) that are compatible with the CleanPad system. For further information please contact your local VWR sales office

Description	Dimensions (mm)	Length (mm)	Packed	Pk	Cat. No.
CleanPad mop (one handle and one head)	380×200×20	1400	1 per case	1	129-1067
Mop cover CleanPad (bulk) - 100 % polyester	-	-	in double PE bag 25 covers + 1 foam pad per bag	25	129-1066
Mop cover CleanPad (flat) - 100 % polyester	-	-	in double PE bag 6 foam pads per bag	6	141-0945



Mops, flat, cleanroom



Suitable for Class 10, ISO 4, M2 cleanrooms

Foam with 100% polyester cover. For applying disinfectants during pharmaceutical production or for aseptic processes. The flat mop head is ideally suited for cleaning large surfaces such as floors, walls and ceilings. Low profile, thick padding and angled head for ease of use.

- Autoclavable, washable and reusable
- Good moisture bonding provides optimum contact with the disinfectant
- Available in sterile and non sterile versions
- Resistant to strong disinfectants

Ordering information: The complete mop consists of the mop head, a matching stainless steel adapter, and the mop handle. Please select the required components and order each separately.

Description	Dimensions (mm)	Pk	Cat. No.
Mop head, non sterile	230	24	129-0067
Mop head, non sterile	356	24	129-0068
Mop head, non sterile	457	24	129-0069
Mop head, sterile	230	24	129-0070
Mop head, sterile	356	24	129-0071
Mop head, sterile	457	24	129-0072

Description	Length (mm)	Pk	Cat. No.
Universal handles, Quick Disconnect System			
Standard stainless steel handle	1550	1	129-0062
Stainless steel extendable handle	965 - 1830	1	129-0551
Accessories			
Connector, stainless steel, 230 mm		1	129-0536
Connector, stainless steel, 356 mm		1	129-0537
Connector, stainless steel, 457 mm		1	129-0538





EasySat™ bucketless floor mop
Contec



EasySat™ bucketless floor mop is an effective and quick solution to cleaning challenges. Designed for the cleanroom, this innovative mop is easy to use – the built-in 1,5 litre solution tank completely eliminates the need for a bucket and wringer (one full tank cleans up to 465 m²). Disposable mop heads are made from an ultra clean polyester foam VertiKlean

- Fully autoclavable
- Closed solution tank minimises exposure to chemicals
- Large opening makes tank easy to fill
- Lightweight mop system weighs 3,2 kg with full tank
- Trigger flow control mechanism releases cleaning solution on demand or continuously
- Angled mop head cleans hard-to-reach areas and is available in two styles: smooth surface for standard floor cleaning, and textured surface for more abrasive action

Mop head is available validated sterile as per AAMI/ISO 11137:2006 guidelines. Gamma irradiated to SAL 10⁻⁶, one of the strictest guidelines established by AAMI/ISO.

Description	Dimensions (mm)	Packed	Pk	Cat. No.
EasySat™ bucketless floor mop hardware				
Bucketless floor mop system, EasySat™			1	141-0100
EasySat™ mop heads				
EasySat™ mop head	550×120×460	4 units/bag, 8 bags	32	129-0213
EasySat™ mop head, sterile	550×120×460	1 unit/bag, 28 bags	28	129-0214
EasySat™ mop head, textured	550×120×460	4 units/bag, 8 bags	32	129-0215
EasySat™ mop head, textured, sterile	550×120×460	1 unit/bag, 28 bags	28	129-0338

Mopping Systems, VertiKlean®, MAX™
Contec



VertiKlean® MAX™ is designed for applying disinfectants to both horizontal and vertical surfaces and is ideal for general cleaning of ceilings, walls and floors. This lightweight mop features a single layer of hydrophilic polyurethane foam laminated to polyester microfibre fabric backed by a semi-rigid thermoformed plate, which easily snaps onto a VertiKlean® mop head frame.

VertiKlean® MAX™ has a slim profile for cleaning in tight spaces. Improved ribbed microfibre material smoothly glides over floors and textured surfaces and provides better contamination removal. The pivoting mop head frame makes it easy to clean around door and window frames as well as light fixtures and heavy equipment.

Available in three lengths to meet your cleaning needs, the smallest VertiKlean® MAX™ is appropriate for cleaning tasks in confined spaces, such as cleaning and disinfecting fume hoods, isolators and mini environments. The VertiKlean® MAX™ medium and large are ideal for cleaning and disinfecting broad surfaces in cleanrooms and controlled environments.

- Hydrophilic urethane foam and knitted polyester mop head retains liquids better than comparable products
- Laser cutting seals the edges of the foam and polyester, reducing the chance of fibre and particle contamination
- Excellent chemical and abrasion resistance
- Lasts longer than traditional sponge mops
- Enables the uniform application of disinfectants and cleaning solutions
- Compatible with a wide range of solutions

Description	Dimensions (mm)	Packed	Pk	Cat. No.
Mop heads				
Mop head, small, VertiKlean® MAX™, ribbed microfibre face	210×110×20	4 units/bag, 12 bags	48	141-0989
Mop head, small, VertiKlean® MAX™, ribbed microfibre face, sterile	210×110×20	1 unit/bag, 48 bags	48	141-0990
Mop head, medium, VertiKlean® MAX™, ribbed microfibre face	320×110×20	4 units/bag, 7 bags	28	141-0991
Mop head, medium, VertiKlean® MAX™, ribbed microfibre face, sterile	320×110×20	1 unit/bag, 28 bags	28	141-0992
Mop head, large, VertiKlean® MAX™, ribbed microfibre face	380×110×20	4 units/bag, 6 bags	24	141-0993
Mop head, large, VertiKlean® MAX™, ribbed microfibre face, sterile	380×110×20	1 unit/bag, 24 bags	24	141-0995
Mop head, large, VertiKlean® MAX™, knitted polyester face	380×110×20	4 units/bag, 6 bags	24	129-0979
Mop head, large, VertiKlean® MAX™, knitted polyester face, sterile	380×110×20	1 unit/bag, 24 bags	24	141-0994
Mop head frames and handles				
QuickConnect™ mop head frame, swivel-head, without handle, for Vertiklean® Regular Vertiklean® only	190		1	129-0207
QuickConnect™ mop head frame, swivel-head, without handle, for Vertiklean® Medium Vertiklean® only	290		1	129-0208



Wall washing system, VertiKlean®
Contec



Designed for vertical wet cleaning of walls and ceilings and for spreading disinfectants. System consists of a disposable polyester/foam mop head, attached to a stainless steel swivel handle with frame.

- Abrasion resistant and free of any cellulose contaminants
- All handles are autoclavable, all systems compatible with gamma, ETO, and autoclave sterilisation

Disposable VertiKlean® Sox removable covers protect the mop heads during vertical wet cleaning and improve the durability of the mop while cleaning highly abrasive surfaces.

Description	Dimensions (mm)	Length (mm)	Packed	Pk	Cat. No.
Vertiklean® mop heads					
Regular Vertiklean® mop head, VK-MOP	210×110×30		4 units/bag	4	141-0987
Regular Vertiklean® mop head, sterile, VK-MOPIR	210×110×30		1 unit/bag, 48 bags	48	141-0988
Regular Vertiklean® mop head, textured, TVK-MOP	210×110×30		4 units/bag, 12 bags	48	141-0983
Medium Vertiklean® mop head, MVK-MOP	320×110×30		4 units/bags	4	129-0158
Medium Vertiklean® mop head, sterile, MVK-MOPIR	320×110×30		1 unit/bag, 32 bags	32	141-0972
Large Vertiklean® mop head, LVK-MOP	380×110×30		4 units/bags	4	129-0157
Large Vertiklean® mop head, sterile, LVK-MOPIR	380×110×30		1 unit/bag, 32 bags	32	141-0971
Large Vertiklean® mop head, textured, TLVK-MOP	380×110×30		4 units/bags, 8 bags	32	141-0982
Vertiklean® Sox mop head covers					
Regular VertiKlean® Sox mop head cover, clean-processed polyester, for VK-MOP	-		4 pieces/bag; 8 bags/ case; 32 pieces/case	32	129-0159
Medium VertiKlean® Sox mop head cover, clean-processed Quilttec, for MVK-MOP	-		10 pieces/bag; 12 bags/case	120	129-0978
Large VertiKlean® Sox mop head cover, clean-processed Quilttec, for LVK-MOP	-		4 pieces/bag; 8 bags/ case; 32 pieces/case	32	129-0977
Mop head frames and handles					
QuickConnect™ mop head frame, swivel-head, without handle, for Vertiklean® Regular Vertiklean® only		190		1	129-0207
QuickConnect™ mop head frame, swivel-head, without handle, for Vertiklean® Medium Vertiklean® only		290		1	129-0208
QuickConnect™ mop head frame, swivel-head, without handle, for Vertiklean® Large Vertiklean® only		360		1	129-0209
Anodised extension handle with frame for use with VertiKlean Wall Washing®, mop head and frame: 305 mm, frame handle is 2337 mm, autoclavable		-		1 SET	141-0958



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QuickTask™ flat mops
Contec



QuickTask™ mopping system

The QuickTask™ product line consists of a variety of knitted polyester, polyester/cellulose, microfibre/foam and microfibre flat mop heads that are easily installed onto a hinged mop head frame and QuickConnect interchangeable handle. QuickTask™ mop head frames are available in stainless steel or durable, autoclavable polypropylene.

- All mop head covers are compatible with a wide range of chemicals and disinfectants
- Ideally suited for cleaning floors, including perforated cleanroom floors and grates
- TASK0300 is ideal for effective cleaning of polymeric flooring

QuickTask™ mop covers:

Polyester knit mop covers TASK0200 and TASK0250: these economical disposable mop covers are the lightest in the QuickTask™ range. Made of sorbent multi layer knitted polyester that is optimised for use on smooth surfaces and applies solutions evenly while removing contaminants. Supplied cleanroom laundered for more critical environments. Designed for single-use.

Looped Microfibre mop cover TASK0300: the most sorbent QuickTask™ mop cover, the small loop microfibre construction of TASK0300™ provides exceptional performance in removing liquids, soil, residues and other contaminants from most surfaces. Microfibre construction for exceptional sorbency and mop-to-dry performance on wet surfaces. Can be laundered and autoclaved. Especially effective on polymeric flooring.

Looped polyester knit mop heads TASK0400: The cleanest and most durable mop head in the range, the medium length loops will conform to almost any shape, making it especially suitable for coving bases and wall/floor joints. Laundered and packed in an ISO Class 4 Cleanroom for a very low level of particulates. Knitted tube microfibre polyester construction provides exceptional sorbency and drying of wet surfaces. Medium-loop design allows easy contact with irregular surfaces. Can be repeatedly laundered and autoclaved.

Polyester/cellulose blend mop cover TASK0500 and TASK0550: The lightest mop cover in the QuickTask™ range, TASK0500 and TASK0550 feature a polyester/cellulose cover over a polyester fibrefill core. Ideal for cost-effective single-use. Highly sorbent mop cover is ideal for removing light soils, residues and biofilms.

Polyester/cellulose blend mop cover TASK0600 and TASK0650: The unique microfibre face with foam core construction ensures excellent floor contact, sorbency and superior surface cleaning. Ribbed microfibre allows for exceptional cleaning, solution application and mop-to-dry performance. TASK0650 is validated sterile. Durable and economical, suitable for critical environments.

QuickTask™ mop head frames and QuickConnect™ handles:

Stainless steel and autoclavable polypropylene handles for QuickTask™ mops.

- Durable and lightweight hinged frames in stainless steel or blue polypropylene copolymer
- Quickly and easily slips into QuickTask™ mop head covers
- Compatible with all common disinfectant solutions and most common solvents
- Mop head frame 2749 is compatible with all Contec QuickConnect™ handles
- All QuickTask™ hardware are fully autoclavable

Description	Colour	LxW (mm)	Length (mm)	Packed	Pk	Cat. No.
QuickTask™ Mops						
QuickTask™ flat mop cover with pockets, non sterile, TASK0200	White	410x120		48 unit/case	48	141-0975
QuickTask™ flat mop cover with pockets, sterile (gamma irradiated), TASK0250	White	400x120		40 unit/case	40	141-0976
QuickTask™ looped microfibre mop head, autoclavable and non sterile, TASK0300	Blue	400x120		40 unit/case	40	141-0977
QuickTask™ flat mop cover with pockets, non sterile, TASK0400	White	450x160		50 unit/case	50	141-0978
QuickTask™ polyester/cellulose flat mop head, non sterile, TASK0500	White	400x120		48 unit/case	48	141-0979
QuickTask™ polyester/cellulose flat mop head, sterile (gamma irradiated), TASK0550	White	400x120		40 unit/case	40	141-0980
QuickTask™ polyester microfibre/ foam mop head, non sterile, TASK0600	White	400x120		40 unit/case	40	141-0981
QuickTask™ foam mop head, laminated polyester fabric, TASK0100	White	-		32 unit/case	32	141-0974
QuickTask™ mop cover, Amplitude™ Sigma™ polyester/cellulose, non woven, NWCP0100	White	420x250		1000	1.000	141-0973
QuickTask™ frames and QuickConnect™ handles						
QuickConnect™, stainless steel handle, lightweight, hanging loop for QuickTask™ mop head frame	Grey		406		1	129-0573
QuickConnect™ stainless steel handle, for QuickTask™ polypropylene mop head frame 2740	Grey		1520		1	141-0960
QuickConnect™ anodised aluminium telescopic handle	Grey		406 – 762		1	129-0202
QuickConnect™ anodised aluminium telescopic handle	Grey		1270 – 2337		1	129-0203
QuickConnect™ stainless steel telescopic handle	Grey		1270 – 2337		1	129-0205

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Description	Colour	LxW (mm)	Length (mm)	Packed	Pk	Cat. No.
QuickTask™ frames and QuickConnect™ handles						
QuickTask™ polypropylene flat hinged mop head frame 2740, attaches easily to stainless steel handle 2725E	Blue		400		1	141-0961
QuickTask™ stainless steel flat hinged mop head frame 2749, for use exclusively with all Contec QuickConnect™ handles	Grey		400		1	141-0962
QuickTask™ flat mop head frame and handle, stainless steel	Grey		400		1	141-0963

Cleanroom mop wipes, MicroGenesis™
Contec

This disposable cleanroom laundered microfibre wipe is intended to be used in combination with the QuickClean™ foam mop head. The wipe simply needs to be wrapped around the mop head and secured to the frame. Ideal for wet or dry floor, wall, and ceiling cleaning in cleanroom environments.

- Compatible with a wide range of disinfectants, chemicals and solutions
- Ideal for disinfecting floors, walls and ceilings during weekly and monthly cleaning
- Wipe picks up and retain particles, dust and other contaminants
- Meets all USP cleaning requirements
- Designed for single-use to eliminate cross contamination concerns

Description	LxW (mm)	Packed	Pk	Cat. No.
Laundered mop wipe, MicroGenesis™	250x460	100 wipes/bag; 4 bags/case	400	115-1861

Mop with handle, BetaMop™ II
ITW Texwipe



BetaMop™ II features a tubular-knit polyester mop head for economical floor cleaning. Quick change clamp assembly.

- High-capacity, seamless head provides high absorbency
- Low contamination makes it ideal for floor cleaning in critical environments
- Can be used with all wring-bucket systems

Description	Pk	Cat. No.
BetaMop™ II with handle	1	129-0220
Accessories		
Replacement mop heads	6	129-0221



Cleanroom ClipperMop™
ITW Texwipe



ClipperMop™ cleanroom mops are designed to use standard 230x230 mm (9"×9") and 310x310 mm (12"×12") cleanroom wipes, eliminating the need to qualify and inventory additional wipes or mop covers. The mophead uses non abrasive polyethylene clips to securely fasten one or more wipes to the head. The ClipperMop™ wipe attachment method does not release particles, fibres or dirt. The mop system can be sterilised by gamma irradiation, chemicals, vapourised hydrogen peroxide (VHP) or ethylene oxide (EtO). The powder-coated steel, telescopic handle extends from 730 to 1340 mm.

The ClipperMop™ system can be used with wet, dry or sterile wipes, and is compatible with protocols for ISO Class 3 to 8 cleanrooms, sterile and aseptic areas.

- Quick and easy wipe change
- Swivel head assembly allows access to hard-to-reach areas
- Lightweight, easy to handle

Description	Packed	Pk	Cat. No.
ClipperMop™ cleanroom mop (180x100 mm) with head assembly and telescopic handle, TX7102	1/case	1	141-0101
ClipperMop™ cleanroom mop (280x100 mm) with head assembly and telescopic handle, TX7103	1/case	1	141-0102



Mops, M-Zone SnapMop™
Micronova



Versatile flat head mop on an electropolished stainless steel frame with a swivel joint for a 360° rotation. Covers are constructed with a thin urethane foam interior completely encased in polyester, ensuring no exposed foam and resulting in less weight and faster drying. Available in 100% polyester or with 'cleaning bands' in microfibre for additional cleaning power or MegaTex® for cleaning rough/textured surfaces or removing heavy deposits. Can be laundered, re-used and able to withstand alcohol, strong disinfectants and steam sterilisation. Also available gamma irradiated.

Ordering information: Mop frame/adapters and handles are sold separately. Please contact your VWR representative for more information.

Description	Pk	Cat. No.
M-Zone SnapMop™ Mega Tex® cover, width 229 mm, non irradiated	24	141-1026
M-Zone SnapMop™ Mega Tex® cover, width 229 mm, irradiated	24	141-1027
M-Zone SnapMop™ Polysorb, width 356 mm, with polyurethane foam interior, able to withstand alcohol, strong disinfectants and steam sterilisation, non irradiated	24	129-0973
M-Zone SnapMop™ Polysorb, width 356 mm, with polyurethane foam interior, able to withstand alcohol, strong disinfectants and steam sterilisation, irradiated	24	141-1017
M-Zone SnapMop™ Mega Tex® cover, width 356 mm, non irradiated	1	129-0974
M-Zone SnapMop™ Mega Tex® cover, width 356 mm, irradiated	24	141-1023
M-Zone SnapMop™ Mega Tex® cover, width 457,2 mm, non irradiated	24	141-1024
M-Zone SnapMop™ Mega Tex® cover, width 457,2 mm, irradiated	24	141-1025
M-Zone SnapMop™ microfibre cover, width 229 mm, non irradiated	24	141-1031
M-Zone SnapMop™ microfibre cover, width 229 mm, irradiated	24	141-1032
M-Zone SnapMop™ microfibre cover, width 356 mm, non irradiated	1	129-0975
M-Zone SnapMop™ microfibre cover, width 356 mm, irradiated	24	141-1028
M-Zone SnapMop™ microfibre cover, width 457,2 mm, non irradiated	24	141-1029
M-Zone SnapMop™ microfibre cover, width 457,2 mm, irradiated	24	141-1030
M-Zone SnapMop™ NovaPoly cover, width 229 mm, non irradiated	24	141-1021
M-Zone SnapMop™ NovaPoly cover, width 229 mm, irradiated	24	141-1022
M-Zone SnapMop™ NovaPoly cover, width 356 mm, without foam interior, non irradiated	24	129-0742
M-Zone SnapMop™ NovaPoly cover, width 356 mm, irradiated	24	129-0743
M-Zone SnapMop™ NovaPoly cover, width 356 mm	24	141-1018
M-Zone SnapMop™ NovaPoly cover, width 457,2 mm, non irradiated	24	141-1019
M-Zone SnapMop™ NovaPoly cover, width 457,2 mm, irradiated	24	141-1020



Cleanroom floor wipes, sterile, AlphaLite® II
ITW Texwipe



Suitable for use in Class 100, ISO 5 and Class 1000, ISO 6 environments.

Cut-edge polyester single ply wipe that is ideal for floor cleaning and for applying cleaning solutions and disinfectants on floors.

- Large size for improved application on floor surfaces
- Size is compatible with most mopping systems
- Improved contamination control

Packaging is adapted for sterile and highly critical environments.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3422	600x250	3 wipes/bag, 100 bags/case	300	115-1892
TX3424	600x250	10 wipes/bag, 34 bags/case	340	115-1893



Cleanroom floor wipes, sterile, TexTra™
ITW Texwipe



Suitable for use in Class 100, ISO 5 and Class 1000, ISO 6 cleanrooms.

Sterile TexTra™ is a single ply, 100% continuous filament polyester wipe that offers high capacity sorption in a heavyweight, large surface floor wipe. It provides good abrasion resistance and is an ideal choice for all floor cleaning applications.

- Large size for improved application on floor surfaces
- Size is compatible with most mopping systems
- Improved contamination control

Packaging is adapted for sterile and highly critical environments.

Description	LxW (mm)	Packed	Pk	Cat. No.
TX3423	580x250	5 inner bags of 10 wipes	50	115-0595

Cleanroom tack cloth, Tax-Fre®
Contec



The non woven tack wipe has been specifically engineered to provide excellent contamination removal from surfaces without sticking, grabbing, or transferring tack adhesive to the surface. A unique polymer adhesive gives the Tax-Fre® wipe a soft, dry feeling, free of tackiness or stiffness.

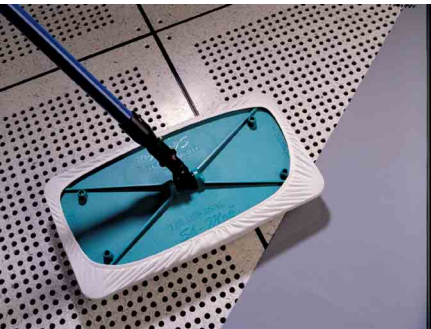
- Unique adhesive is similar to the adhesive used in removable sticky notes
- Virtually eliminates the potential for tack transfer from wipe to surface or gloves
- Very low particle generation
- Pressure-sensitive tack formulation: The harder you press, the better it works
- Apertured surface texture maximises cleaning efficiency and dirt retention capacity

Colour: White

Model	Tax-Fre®
Basis weight (g/m²)	50
Extractables - using deionised water (g/m²)	0,32
Extractables - using isopropanol (g/m²)	5,58
Fibres (>100 µm) (x10³/m²)	10,4
Ions - chloride (ppm)	61
Ions - sodium (ppm)	415
Particle generation (>=0.5 µm) (x10⁶/m²)	7,0

LxW (mm)	Packed	Pk	Cat. No.
460x250	Stacked, 100 pieces/bag, 4 bags/case	400	115-1875
710x305	50 wipes/bag, 4 bags/case	200	115-1876

Mop, AlphaMop™, PE
ITW Texwipe



Ideal for cleaning ceilings, walls, floors, and other flat surfaces in critical environments. The changeable, laundered polyester head fits over a flat foam swivel pad assembly attached to a fiberglass handle. Replaceable foam pad ensures the polyester head conforms to textured floors and other surfaces while resisting corrosion and abrasion. A lightweight, durable fiberglass handle gives the user excellent control over the swivel head.

- Lightweight mop maintains ultra-low generation of particles and extractables
- Mop can be sterilised
- Mophead covers can be pre-wetted with 6% isopropanol
- Accesses hard-to-reach areas with ease
- Excellent durability with low contamination
- Allows user to change covers and foam pads frequently, adhering to wiping protocol
- Rapid-change cover and foam pad configuration

Packaging: Mop is Bag-Within-A-Bag® cleanroom packaged.

Continued from previous page

Description	LxW (mm)	Length (mm)	Packed	Pk	Cat. No.
Mop covers					
AlphaMop™ cleanroom mop, thermoplastic head and fibreglass handle, autoclavable, TX7108A	381×203,2	Handle: 1524	120 covers and 12 pads/case	1	141-1055
AlphaMop™ mop TX7108 with: 1 polyester foam pad, 1 starter pack with 6 microdenier mop covers (TX7118M) 1 starter pack with 6 AlphaWipe™ mop covers (TX718) 1 handle	381×203,2	Handle: 1524	-	1	129-0180
AlphaMop™ polyester heads and foam pads, TX7118	381×203,2	-	25 mop covers/bag; 6 bags/case	1 KIT	129-0181
AlphaSat™ polyester replacement covers, pre-wetted with 6 % IPA, TX7026	381×203,2	-	25 covers/bag; 4 bags/case; 4 pads/case	25	141-0249
Autoclave safe AlphaMop™ replacement head, thermoplastic mop head for TX7108A	381×203,2	-	1/case	1	141-1056
AlphaMop™ replacement head, thermoplastic mop head for TX7108	381×203,2	-	1/case	1	141-1057
AlphaMop™ foam pad replacements, TX7118F	381×203,2	-	25 foam pads and 4 fastening pins/bag; 3 bags/case	10	141-1059
AlphaMop™ microdenier replacement covers TX7118M (for TX7108 and TX7108A), 100% polyester	381×203,2	-	25 mop covers/bag; 6 bags/case	150	141-1060
Sterile AlphaMop™ polyester replacement covers and pads: TX3268, for use with TX7108 and TX7108A	381×203,2	-	10 covers and 1 pad/bag; 12 bags/case	120	141-1048
Sterile AlphaMop™ polyester covers and foam pads, STX7118M	381×203,2	-	10 covers and 1 pad/bag; 12 bags/case	120	141-1049
Handle					
AlphaMop™ cleanroom replacement handle		1500		1	141-1064
AlphaMop™ cleanroom mop handle, telescopic		1524 – 2845		1	141-1065

Cleanroom mops



The Duo mop concept is designed to meet the high demands for effective cleaning and disinfection of cleanroom and controlled environments. The microfibre composition removes and holds particulates from the surface, including up to 99,9% bacteria removal. The Duo mop concept gives you twice the area cleaned with the same mop head.

CleanTech Duo mop

- Microfibre laminated cleanroom foam for cleaning/disinfecting floor, walls and ceilings
- Designed for use in cleanroom class ISO 5/GMP A+B/FED209D Class 100
- Excellent microfibre cleaning results has been independently proven
- Suitable for bucket and pre-prepared method

SanTech Duo mop

- Polyester laminated cleanroom foam for disinfecting floor, walls and ceilings
- Designed for use in cleanroom class ISO 5/GMP A+B/FED209D Class 100
- Excellent liquid absorbency as well as good lint-free resistance
- Suitable for bucket and pre-prepared method

Description	Colour	Length (mm)	Pk	Cat. No.
CleanTech Duo microfibre laminated mop	Blue/White	500	1	141-0996
SanTech Duo polyester laminated mop	White	500	1	141-0997



Econo CurtainCleaner™ mops
Micronova



The Econo CurtainCleaner™ provide an easy and efficient way to clean vinyl strip curtains. Designed for cleanroom use, the Econo CurtainCleaner™ mop features no moving parts. Instead, it grasps the top of the strip and slides down its length to apply or squeegee cleaning solution on both sides of the strip curtain simultaneously. With a wide array of launderable covers, the Econo CurtainCleaner™ can be used with alcohol, steam sterilisation, and strong disinfectants to maintain industrial, cleanroom, or other critical environment situations.

- Designed for cleanroom use
- Simple and efficient
- Reuseable covers come in NovaPoly, PolySorb, microfibre and microfibre/mesh material filled with urethane foam
- Gamma irradiated covers are also available
- Covers attach to an electropolished stainless steel adapter which fits any Micronova SSU handles
- Autoclave safe

Description	Pk	Cat. No.
Mop head, polyester cover	1	141-1014
Mop head, PolySorb cover	1	141-1012
Mop head, PolySorb cover, irradiated	12	141-1013
Mop head, blue microfibre cover	1	141-1015
Stainless steel adapter	1	141-1033



Tank tool
Micronova



The tank tool is designed to efficiently clean chambers, tanks and pipes from above or below. The articulated head allows the curved frame to hug the outer wall of the tank as it moves downward to remove residue or apply disinfectant. The unit has a degree of swivel to ensure good contact with the surface being cleaned.

- Curved design provides better surface contact
- Covers available in a variety of fabrics

Utilises SnapMop™ series covers. Available in polyester, microfibre or MegaTex™ fabrics.

Description	Pk	Cat. No.
Tank tool adapter, electropolished stainless steel	1	129-1072



Mops, MegaSwat™
Micronova



These flat, paddle-shaped mops are for sliding behind heavy cabinets and process equipment, over piping and underneath calibrated equipment. Mop heads measure (WxD) 406x3 mm.

- Flexible polyethylene interior, choice of PVA, NovaLite latex rayon or NovaPoly polyester covering
- MegaSwat™ Lite with NovaLite cover withstands stronger disinfectants and can be autoclaved
- Mop heads attach to universal stainless steel handle via quick disconnect MegaSwat™ adapter

Ordering information: All components must be ordered separately.

Description	Length (mm)	Pk	Cat. No.
MegaSwat™ mop, NovaPoly cover	203	1	129-0614
MegaSwat™ mop, NovaPoly cover, irradiated	203	12	129-1083
MegaSwat™ mop, PVA cover	406	1	129-0516
MegaSwat™ Lite mop, NovaLite cover	406	1	129-0517
MegaSwat™ mop, NovaPoly cover	406	1	129-0518

Description	Pk	Cat. No.
Accessories		
MegaSwat™ adapter, 63x406 mm	1	129-0530
MegaSwat™ adapter, 76x203 mm	1	129-0626

Brush, FlexBrush™
Micronova



The FlexBrush™ is ideal for cleaning over and around piping and fittings. The flexibility of the head allows the user to shape the head for custom cleaning applications. Brush comes with a autoclavable microfibre cover. A threaded handle can be added for extended reach.

- Bendable brush with polyester or microfibre cover
- Acme threaded end attaches to a variety of handles for extended reach

Description	Pk	Cat. No.
FlexBrush™ adapter, 305 mm	1	129-1068
Polyester cover	1	141-1016
Microfibre cover	1	129-1069

Tank tool
Micronova



The tank tool is designed to efficiently clean chambers, tanks and pipes from above or below. The articulated head allows curved frame to hug the outer wall of the tank as it moves downward to remove residue or apply disinfectant. The unit has a degree of swivel to ensure good contact with the surface being cleaned.

- Curved design provides better surface contact
- Covers available in a variety of fabrics

Utilises SnapMop™ series covers. Available in Polyester, microfibre or MegaTex™ fabrics.

Description	Pk	Cat. No.
Tank tool, electropolished stainless steel	1	129-1073



AlphaMop™ isolator cleaning tool
ITW Texwipe



The ITW Texwipe® Mini AlphaMop™ isolator cleaning tool is designed to clean isolators, biosafety cabinets, glove boxes and laminar flow hoods. The mop has a low, flat profile and rounded corners. It is made from Celcon® plastic and is totally autoclavable. The swivel joint allows the user to reach difficult-to-access areas. The replaceable foam pad ensures that the mop cover conforms to the surfaces being cleaned. 129-0273 includes two handles, 18" and 24" (45,72 cm and 60,96 cm), and is easily used with one hand.

- Strong and lightweight
- Easily used in hard-to-access areas; mop covers are quickly and easily changed
- Mop covers have excellent durability and a superior strength against abrasion

Description	Packed	Pk	Cat. No.
Isolator cleaning mop with two handles and 6 mop covers	1 mop/case 2 handles (18" and 24") 1 polyester foam pad 6 polyester mop covers	1	129-0273

Description	Packed	Pk	Cat. No.
Accessories			
TechniCloth® replacement mop covers (ISO Class 6-8)	150 mop covers/case 25 covers/inner bag 6 inner bags/case	150	129-0274
AlphaWipe® replacement mop covers (ISO Class 4-8)	150 mop covers/case 25 covers/inner bag 6 inner bags/case	150	129-0276
Mini-AlphaMop™ isolator cleaning tool, polyester replacement set (ISO Class 4-8)	150 mop covers/case 25 covers/inner bag 6 inner bags/case 6 foam pads/case	150	141-1058
Mini-AlphaMop™ isolator cleaning tool, polyester replacement set (ISO Class 4-8)	1 mop cover/bag 1 pad/bag	1	129-0277

Isolator Cleaning Tool
ITW Texwipe



Isolator cleaning tool: mop hardware, replacement head, replacement handle:

Specially engineered to work with isolators and other small areas, this easy-to-manoeuvre tool offers lightweight, one-handed operation. With a low-profile, swivel head, the isolator cleaning tool gets into hard-to-reach places.

Engineered for quick cover changes during operation, the padded head allows for a consistent mop across different surfaces without losing cleaning power. The rounded edges clean the isolator corners and prevent scratches or damage to surfaces.

- Rapid-change system allows user to replace covers/pads frequently, adhering to strict cleaning protocol
- Polyester pad conforms to surfaces
- Gets into hard-to-reach areas with its low profile, swivel head
- 100% polyester covers provide the cleanest substrates available for cleaning isolators
- Offers one-handed operation with lightweight handles

Isolator cleaning covers:

Made from 100% polyester or 100% polyester microdenier fabric. This fabric provides enhanced particle lifting, streak-free cleaning, plus enhanced sorption for working with solutions.

- Enhanced absorbency and quick-wicking performance
- Increased lifting and capturing of particles as small as microbes
- Streak-free cleaning

Description	LxW (mm)	Length (mm)	Packed	Pk	Cat. No.
Mop hardware					
Isolator cleaning tool kit: with 1 thermoplastic mop head (100×180 mm), 1 telescoping fibreglass handle (730 mm – 1340 mm), 1 polyester pad, 2 fastening pins, 6 microdenier covers (TX7114M) and 5 sterile AlphaMop™ covers (STX7114)	100×180	730 – 1340		1	141-1053
Replacement head					
Isolator cleaning tool replacement head: with 1 thermoplastic mop head (100×180 mm), 1 pad	100×180	-		1	141-1054
Replacement handles					
Isolator cleaning tool replacement handle, white fibreglass, autoclave safe		304		1	141-1061
Isolator cleaning tool replacement handle, white fibreglass, autoclave safe		450		1	141-1062
Isolator cleaning tool extension handle telescoping, white fibreglass, autoclave safe		730 - 1340		1	141-1063
Isolator cleaning covers					
Sterile isolator cleaning tool microdenier covers and polyester pads			5 covers and 1 pad/ bag; 25 bags/ case	150	141-1047
Sterile Mini AlphaMop™ covers polyester replacement covers and pads			125 covers and 25 pads/case	125	141-1046

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Isolator cleaning tools
Micronova



Isolator tool



Handles

For use with isolators, containment, and biological hoods in cleanroom and buffer areas. Low profile tools fold down to fit through pass-throughs and docking devices. These isolator tools feature an angled head for easy application of disinfectant or detergent. Fabric slip covers are launderable and autoclavable, but can also be purchased irradiated. Modular, extendable over/under handles can be used fully extended or locked-in at a preferred angle to reach into confined spaces, then folded back down to pass easily in and out of docking devices, pass-throughs, and chambers.

NovaPoly covers: 100 % polyester. Can be used with strong disinfectants. Autoclavable.

MegaTex™ covers: Non woven. Polyamide textured thermo bonded surface. Can be used with strong disinfectants. Autoclavable.

Handles: Straight handles are available in electropolished stainless steel or plastic. Accordion handles are designed to deal with the unique space limitations in isolators and containment hoods. Available in 330 and 483 mm sizes, each section features a Delrin® hinge and quick disconnect to allow for attachment of additional sections or isolator tool itself.

Ordering information: Isolator tool, fabric covers and handles must be purchased separately.

Description	Colour	Length (mm)	Pk	Cat. No.
Isolator tools				
Isolator tool adapter, 229 mm			1	129-0625
Isolator tool adapter, plastic, 229 mm			1	216-1490
Covers				
cleaning tool, NovaPoly/MegaTex® cover, irradiated, 229 mm width	White		50	129-0613
Isolator cleaning tool, NovaPoly/MegaTex® cover, 229 mm width	White		1	129-0612
Isolator cleaning tool, NovaPoly cover, irradiated, 229 mm width	White		50	129-0611
Isolator cleaning tool, NovaPoly cover, 229 mm width	White		1	129-0610
Handles				
Over/under accordion handle		330	1	129-0622
Over/under accordion handle		483	1	129-0623
Straight handle, plastic		305	1	141-0897



VWR COLLECTION

Delivering high quality & superior performance

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Bin liners bags, M-Zone™
Micronova



Low density polyethylene liners for controlled environments. Uses include transport of product and waste disposal. Clear.

Description	Material	LxW (mm)	Packed	Pk	Cat. No.
Bin liners, thickness 50 µm					
M-Zone™ bin liner bag, thickness: 50 µm	LDPE	1016x1219	Bulk/case of 50	1	129-1089
M-Zone™ bin liner bag, gamma irradiated, sterile, thickness 50 µm	LDPE	1016x1219	Bulk/case of 50	50	129-1091
M-Zone™ bin liner bag, gamma irradiated, sterile, thickness 50 µm	LDPE	1016x1219	Individually bagged, double bagged in group of 5 /case of 50	50	129-1090
Bin liners, thickness 100 µm					
BM-Zone™ in liner, gamma irradiated, sterile, thickness 100 µm	LDPE	1016x1219	Bulk/case of 50	50	129-1094
M-Zone™ bin liner bag, gamma irradiated, sterile, thickness 100 µm	LDPE	1016x1219	Bulk/case of 50	50	129-1093
M-Zone™ bin liner bag, gamma irradiated, sterile, thickness 100 µm	LDPE	1016x1219	Individually bagged, double bagged in group of 5 /case of 50	50	129-1092



Biohazard and caution bags, irradiated
Micronova



Description	LxW (mm)	Packed	Pk	Cat. No.
Biohazard bag, red, irradiated, thickness: 5 µm	914,4x635	Double bagged in group of 5	50	129-1087
Biohazard bag, yellow, irradiated, thickness: 5 µm	914,4x635	Double bagged in group of 5	50	129-1088



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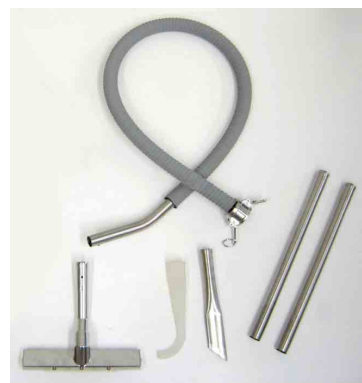
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Cleanroom vacuum cleaners



Industrial cleanroom vacuums are for supplementing and supporting the central "internal vacuum system". The product range includes high-performance vacuums and accessories for various requirements and applications. Whether wet, moist or dry contaminants, even chemically critical or explosive substances - we offer a suitable solution.

The suction capacity

Optimal suction power of cleanroom vacuums is achieved through perfect interplay of motor, airflow through the devices and the position of the efficient, vertical filter bag. The suction power is regulated in two speed levels. Suction capacity of over 40 litres per second confirms the perfect interplay of motor and fan at a low noise level.

Filtration

The most important parameter of the cleanroom vacuum is the collection of ultra fine particles or residues generated from the recovered materials, contaminants or/and from the motor.

ULPA filter - efficiency: 99,999% on particles as small as 0,12 micron (Ultra Low Penetration Air)

HEPA filter - efficiency: 99.999% on particles as small as 0.3 micron (High Efficiency Particulate Air)

Basically we use the high performance ULPA filter for the cleanroom models. Due to the speed level, the ULPA filter becomes at the highest suction level a HEPA filter.

The filtration (4- or 5-stage) and the filter position are model dependent.



Cleanroom vacuum cleaner, MV-1CR (BP)



Construction: Stainless steel AISI 304

Designed for a variety of cleanroom environments and mini environments, including semiconductor/microelectronic, pharmaceutical. Cleanroom compatible.

This unit is equipped with a true ULPA filter (U15) located upstream of the motor. It is EMI/RFI shielded, equipped with an electronic filter suppresser which reduces electromagnetic interference (EMI), it provides shielding against RFI (Radio Frequency Interference), and will not disrupt computers and other sensitive electronic equipment. This unit is static-free and ESD safe. Any static produced while vacuuming is quickly and effectively discharged to the ground.

- 4-stage filtration system includes a U15 filter, cloth filter, dome filter and disposable filter bag
- Special filter lined with stainless steel is available for the recovery of broken wafers and sharp objects
- Single phase through-flow motor
- Recovery capacity of 5,7 litres in disposable filter bag
- Equipped with a backpack harness

Note: For dry recovery only.

ULPA vacuum cleaner is aerosol leak tested.

Cleanroom compatible with ISO Class 4 (former Class 10).

Delivery information: Complete tool kit included.

Model	MV-1CR (BP) - backpack
Air Flow	186.89 m³/h
Vacuum pressure	69 inches H₂O
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.
Phase	Mono
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,2 A
Lxh (mm)	203×914
Weight (kg)	6,5

Description	Pk	Cat. No.
Vacuum cleaner. MV-1CR (GC). EU-plug with paper bag capacity of 5.7 l, with backpack harness	1	141-1072



Cleanroom vacuum cleaner, MV-1CR (HH)
Tiger-Vac®



Construction: Stainless steel AISI 304

Designed for general clean up in contamination controlled environments, cleanroom compatible and ideal for pharmaceutical industry.

This unit is equipped with a true ULPA filter (U15) located upstream of the motor. It is EMI/RFI shielded, equipped with an electronic filter suppresser which reduces electromagnetic interference (EMI), it provides shielding against RFI (Radio Frequency Interference), and will not disrupt computers and other sensitive electronic equipment. This unit is static-free and ESD safe. Any static produced while vacuuming is quickly and effectively discharged to the ground.

- 4-stage filtration system includes a ULPA filter (U15); double cloth filter, dome filter and disposable filter bag
- Special filter lined with stainless steel is available for the recovery broken wafers and sharp object
- Single phase through-flow motor
- Recovery capacity: 2 litres in disposable filter bag

Note: For dry recovery only.

Cleanroom compatible with ISO Class 4 (former Class 10).
ULPA vacuum cleaner is aerosol leak tested.

Delivery information: Complete tool kit included.

Model	MV-1CR (HH), handheld
Air Flow	186,89 m³/h
Vacuum pressure	69 Inches H2O
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.
Phase	einphasig
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,2 A
WxDxH	203x203x533 mm
Weight (kg)	5,9

Description	Pk	Cat. No.
Vacuum cleaner MV-1CR (HH), EU-plug	1	141-1071



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Cleanroom vacuum cleaner, MV-1CR (GC)
Tiger-Vac®



Contruccion: Stainless steel AISI 304

Designed for general clean up in contamination controlled environments. Cleanroom compatible, can be used in the pharmaceutical industry.

This unit is equipped with a true ULPA Filter (U15) located upstream of the motor. It is EMI/RFI shielded, equipped with an electronic filter suppresser which reduces electromagnetic interference (EMI), it provides shielding against RFI (Radio Frequency Interference), and will not disrupt computers and other sensitive electronic equipment. This unit is static-free and ESD safe. Any static produced while vacuuming is quickly and effectively discharged to the ground.

- 4-stage filtration system includes a ULPA filter (U15); double cloth filter, dome filter and disposable filter bag
- Static-free
- Special filter lined with stainless steel is available for the recovery of broken wafers and sharp objects
- Single phase through-flow motor
- Recovery capacity of 5,7 litres in disposable filter bag
- Equipped with a golf cart for easy maneuverability

Note: For dry recovery only.

ULPA vacuum cleaner is aerosol leak tested.

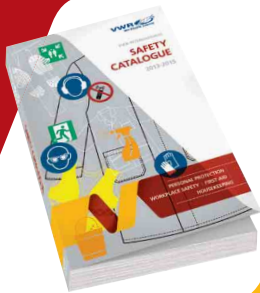
Cleanroom compatible with ISO Class 4 (former Class 10).

Delivery information: Complete tool kit included.

Model	MV-1CR (GC)
Air Flow	186.89 m³/h
Vacuum pressure	69 inches H₂O
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.
Phase	einphasig
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,2 A
Lxh (mm)	203x914
Weight (kg)	6,8

Description	Pk	Cat. No.
Vacuum cleaner, MV-1CR (GC), EU-plug with with paper bag capacity of 5,7 l, with golf cart for manoeuvrability	1	141-0955

Description	Pk	Cat. No.
Accessories		
Micro tool kit Ø 32 mm, ESD safe plastic. The tool kit consists of 6 mini attachments:		
- Crevice tool		
- Extension curve		
- Dusting brush, round		
- Dusting brush, oval		
- Extension straight		
- Conical reducer		
Round brush Ø 32 mm, ESD safe plastic	1	181-0427
Conical reducer, for use with micro tool kit, ESD safe plastic	1 Bag	181-0426
Oval dusting brush, for use with micro tool kit, ESD safe plastic	1	181-0429
	1 Bag	181-0430



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Cleanroom vacuum cleaner, CR-1 ULPA
Tiger-Vac®



Designed for general clean up in contamination controlled environments, cleanroom compatible and ideal for pharmaceutical industry.

This unit is equipped with a true ULPA filter (U15) located downstream of the motor and a 3-stage filtration system consisting of an ULPA filter (U15), main cloth filter and disposable filter bag.

- Single phase through-flow motor
- Based on a 4-wheel dolly for easy manoeuvrability
- Low noise level: only 60 dB (A)
- Recovery capacity of 15,2 liters in recovery tank or 7,6 liters in disposable filter bag

For dry recovery only.

All HEPA/ULPA vacuum cleaners are Aerosol Leak Tested.
Cleanroom compatible with ISO Class 4 (former Class 10).

Delivery information: Complete tool kit included

Model	CR-1 ULPA
Air Flow	96 CFM
Vacuum pressure	2514,6 mm H ₂ O
Phase	mono
Horsepower	1 HP
Power	1000 W / 50 Hz / 240 V / 4,3 A
WxDxH	410x410x560 mm
Weight (kg)	20

Description	Pk	Cat. No.
Vacuum cleaner, CR-1 ULPA, stainless steel (EU-plug)	1	141-1073
Vacuum cleaner, CR-1 ULPA, stainless steel (EU-plug), with ulpa filter protection housing	1	141-1074

Cleanroom vacuum cleaner, EMI 1000
Tiger-Vac®



Construction: Stainless steel AISI 316 2B

Designed for general clean up in contamination controlled environments, cleanroom compatible and ideal for pharmaceutical industry. Designed for safe collection , containment and disposal of potent compounds.

This unit is equipped with a true ULPA filter (U15) located downstream of the motor and a HEPA filter H14 located upstream. The filter chamber and recovery tank are autoclavable.

- Cleanroom compatible with ISO Class 4 (former Class 10)
- Static-free and ESD safe
- 5-stage filtration system include an ULPA Filter U15, HEPA Filter H14, cloth filter, safety filter and disposable filter bag
- Single phase thru-flow motor
- Dual speed control to regulate suction
- Filter chamber and recovery tank are autoclavable
- Based on a 4-wheel dolly for easy maneuverability
- Available with 3 optional tool kits - standard, ESD safe and autoclavable

For dry recovery only. All HEPA/ULPA vacuum cleaners are aerosol leak tested.
Cleanroom compatible with ISO Class 4 (former Class 10).

Model	EMI-1000
Air Flow	203,88 m³/h
Vacuum pressure	95 inches H ₂ O
Filters	ULPA filter: included with an efficiency of 99,999 % on 0,12 µm ; filtration efficiency of 99,9995 % on 0,18 µm HEPA filter: included with an efficiency of 99,995 % on 0,3 µm
Phase	einphasig
Horsepower	1,3 PS
Power	1000 W / 50 Hz / 240 V / 4,6 A
WxDxH	406x406x864 mm
Weight (kg)	16,3

Vacuum cleaners

Dry vacuum cleaners

Description	Pk	Cat. No.
Vacuum cleaner, EMI-1000, stainless steel AISI 304 (EU-plug)	1	181-0341
Description	Pk	Cat. No.
Accessories		
Micro tool kit Ø 32 mm, ESD safe plastic. The tool kit consists of 6 mini attachments:		
- Crevice tool		
- Extension curve		
- Dusting brush, round		
- Dusting brush, oval		
- Extension straight		
- Conical reducer		
	1	181-0427
Round brush Ø 32 mm, ESD safe plastic	1 Bag	181-0426
Round dusting brush, for use with micro tool kit, ESD safe plastic	1 Bag	181-0428
Conical reducer, for use with micro tool kit, ESD safe plastic	1	181-0429
Oval dusting brush, for use with micro tool kit, ESD safe plastic	1 Bag	181-0430
Paperfilter bag (package of 5)	5	181-0425
HEPA filter H14	1	181-0424



Industrial vacuum cleaner, EMI 1000(CV)

Tiger-Vac®



EMI-1000 (CV) dry recovery with safe containment canister stainless steel type 316 2B powerhead, filter chamber and wheel base.

Ideal for the pharmaceutical industry, this unit is equipped with a true ULPA filter (U15) located downstream of the motor and a HEPA filter H14 located upstream. The Containment Canister is sealed. The entire Canister is disposed of when full. This unit is cleanroom compatible and can be used in the pharmaceutical industry. This unit has been designed for the recovery of potent compounds that must be contained for easy removal/disposal. This is a dry recovery only vacuum cleaner. Static-free and ESD safe. EMI/RFI shielded.

- Designed for the safe collection, containment and disposal of potent compounds
- Single phase through-flow motor
- Electropolished version is available.
- Dual speed control to regulate suction
- Based on a 4-wheel dolly for easy manoeuvrability

Cleanroom compatible with ISO Class 4 (former Class 10).
HEPA/ULPA vacuum cleaners are aerosol Leak Tested.

Model	EMI 1000(CV)
Air Flow	203,88 m³/h
Vacuum pressure	95 inches H ₂ O
Filters	ULPA filter: included with an efficiency of 99,999 % on 0,12 micron; filtration efficiency of 99,9995 % on 0,18 micron HEPA filter: included with an efficiency of 99,995 % on 0,3 micron
Phase	einphasig
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,6 A
WxDxH	410x410x860 mm
Weight (kg)	16

Description	Pk	Cat. No.
Industrial vacuum cleaner, EMI 1000 (CV), EU-plug	1	141-1068



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Cleanroom vacuum cleaner, EMI-CWR
Tiger-Vac®



Construction: Stainless steel AISI 304 and 316

Designed for general clean up in contamination controlled environments, cleanroom compatible and ideal for pharmaceutical industry.

This unit is equipped with a true ULPA Filter (U15) located downstream of the motor, it is also EMI/RFI shielded and will not disrupt computers and sensitive electronic equipment. The EMI-CWR is static-free and ESD safe. For critical static control applications requiring zero voltage potential a special TELECOM package is available (conductive wheels are incorporated on the vacuum cleaner and a special tool kit is provided).

- 4-stage filtration system includes a ULPA filter (U15) ; double cloth filter, dome filter and disposable filter bag
- An internal HEPA filter H14 is available as an optional 5th stage of filtration
- Single phase through-flow motor
- Dual speed control to regulate suction
- Based on a 4-wheel dolly for easy manoeuvrability
- It also incorporates a thermo-protector which prevents the motor from overheating if there is a blockage in a nozzle or hose
- Low noise level
- Recovery capacity: 14 litres in the recovery tank and 9,5 litres in a disposable bag

Note: For dry recovery only.

Cleanroom compatible with ISO Class 4 (former Class 10).

ULPA vacuum cleaner is aerosol leak tested.

Delivery information: complete tool kit included.

Model	EMI-CWR
Air Flow	203,88 m³/h
Vacuum pressure	95 Inches H2O
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.
Phase	einphasig
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,6 A
WxDxH	432x381x711 mm
Weight (kg)	15,9

Description	Pk	Cat. No.
Vacuum cleaner EMI-CWR, EU-plug	1	141-1066

Description	Pk	Cat. No.
Accessories		
Micro tool kit Ø 32 mm, ESD safe plastic. The tool kit consists of 6 mini attachments:		
- Crevice tool		
- Extension curve		
- Dusting brush, round	1	181-0427
- Dusting brush, oval		
- Extension straight		
- Conical reducer		
Round brush Ø 32 mm, ESD safe plastic	1 Bag	181-0426
Paperfilter bag (package of 5)	5	181-0425
Paper filterbag (package of 12)	12	141-1076
HEPA filter H14	1	181-0424
ULPA filter (U15)	1	141-1075

Vacuum cleaner, MRV-8 POLY
Tiger-Vac®



Construction: Polyethylene recovery tank

This unit is designed for mercury recovery and includes Mersorb® brand activated carbon for the adsorption of mercury vapours.

This unit is equipped with a true ULPA filter (U15) located upstream of the motor. It is EMI/RFI shielded, is equipped with an electronic filter suppresser which reduces electromagnetic interference (EMI), and it also provides shielding against RFI (Radio Frequency interference) and will not disrupt computers and other sensitive electronic equipment.

- Through-flow motor
- EMI/RFI shielded
- Timer (hour counter) included
- Available with an optional variable speed controller
- Based on a 4-wheel dolly. Optional suction cups available

Note: For dry recovery only.

Delivery information: Includes a timer, suction hose, mercury separator and jars with lids.

Model	MRV-8 POLY
Air Flow	204 m³/h
Vacuum pressure	2413 mm H₂O
Filters	ULPA filter: included with an efficiency of 99,999 % on 0,12 micron; filtration efficiency of 99,9995 % on 0,18 micron HEPA filter: included with an efficiency of 99,995 % on 0,3 micron
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,6 A
WxDxH	460x460x660 mm
Weight (kg)	20

Description	Pk	Cat. No.
Vacuum cleaner, MRV-8 POLY for mercury recovery, EU-plug	1	141-1067



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Cleanroom vacuum cleaner, CR-4D
Tiger-Vac®



Available with a high-density polyethylene recovery tank and chrome plated motor head

Designed for general clean up in contamination controlled environments, cleanroom compatible and ideal for pharmaceutical industry.

This unit is equipped with a true ULPA filter (U15) located upstream of the motor. It is EMI/RFI shielded and equipped with an electronic filter suppresser which reduces electromagnetic interference (EMI). It also provides shielding against RFI (Radio Frequency interference) and will not disrupt computers and other sensitive electronic equipment. This unit is static-free and ESD safe.

- 4-stage filtration system includes a ULPA Filter U15; double cloth filter, dome filter and disposable filter bag
- An internal HEPA filter HEPA H14 is available as an optional 5th stage of filtration
- Single phase thru-flow motor
- Recovery capacity: 15,2 litres in recovery tank and 9,5 litres in disposable filter bag
- Based on a 4-wheel dolly for easy manoeuvrability

Note: For dry recovery only.

Cleanroom compatible with ISO Class 4 (former Class 10).

ULPA vacuum cleaner is aerosol leak tested.

Delivery information: Complete tool kit included.

Model	CR-4D
Air Flow	203,88 m³/h
Vacuum pressure	95 Inches H2O
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822. Or HEPA filter-optional with an efficiency of 99,995% on 0,3 micron. Tested: IEST RP-CC001.3. H14 by MPPS method as per EN 1822.
Phase	einphasig
Horsepower	1,3 PS
Power	240 V, 50 Hz, 1000 W, 4,2 A
WxDxH	432x381x711 mm
Weight (kg)	14,5

Description	Pk	Cat. No.
Vacuum cleaner CR-4D, EU-plug	1	141-1069
Description	Pk	Cat. No.
Accessories		
Micro tool kit Ø 32 mm, ESD safe plastic. The tool kit consists of 6 mini attachments:		
- Crevice tool		
- Extension curve		
- Dusting brush, round	1	181-0427
- Dusting brush, oval		
- Extension straight		
- Conical reducer		
Paperfilter bag (package of 5)	5	181-0425
Paper filterbag (package of 12)	12	141-1076
HEPA filter H14	1	181-0424
ULPA filter (U15)	1	141-1075



Cleanroom vacuum cleaners, CWR (4W)

Tiger-Vac®

Made entirely of stainless steel for easy decontamination and excellent corrosion resistance.

These are wet and dry recovery vacuum cleaners, designed for general clean up and for applications where liquids and detergents are to be recovered in a controlled environment. Ideal for a variety of cleanroom environments, including: pharmaceutical, semiconductor, microelectronic, medical, biomedical, etc.

Static-free and ESD safe: with electrical resistivity less than 10 ohms, any static produced while vacuuming is quickly and effectively discharged to ground.

EMI/RFI shielded: Will not disrupt computers and sensitive electronic equipment.

With dual ULPA filtration to filter both the working and cooling air. Each ULPA filter is individually laser tested to ensure 99,999% efficiency on 0,12 micron. Dual ULPA filter system ensures cleanroom compatibility and allows for maximum suction power.

- 5-stage filtration system includes dual ULPA filter U15 (one for the working air and one for the cooling air), double cloth filter and disposable filter bag
- Single phase by-pass motor
- Based on a 4-wheel dolly for easy maneuverability
- Recovery capacity: 26 litres in the recovery tank and 10 litres in a paper bag (dry recovery)

Cleanroom compatible with ISO Class 4 (former Class 10).

Delivery information: Complete tool kit included.

Model	CWR-8 (4W)	CWR-10 (4W)
Vacuum pressure	85,8 Inches H2O	
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.	
Phase	mono	
Horsepower	1,4 PS	1,4 HP
Power	240 V, 50 Hz, 1050 W, 5 A	
Lxh (mm)	470x760	480x860
Weight (kg)	23	28,5

Description	Pk	Cat. No.
Vacuum cleaner CWR-8 (4W), EU-plug	1	141-1070
Vacuum cleaner CWR-10 (4W), EU-plug	1	181-0342

Description	Pk	Cat. No.
Accessories		
Optional needle trap assembly, stainless steel (inlet: 50 mm/outlet: 32 mm), electropolished	1	141-1077



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Cleanroom vacuum cleaner, CRW POLY series, Tiger-Vac®



Recovery tank made from polyethylene

These wet and dry recovery vacuum cleaners are designed for general clean up in contamination controlled environments. They are cleanroom compatible and can be used in the pharmaceutical industry.

These units are EMI/RFI Shielded and will not disrupt computers and sensitive electronic equipment.

With dual ULPA filtration to filter both the working and cooling air. Each ULPA filter is individually laser tested to ensure 99,999% efficiency on 0,12 micron. Dual ULPA filter system ensures cleanroom compatibility and allows for maximum suction power.

- 5-stage filtration system includes dual ULPA Filter U15 (one for the working air and one for the cooling air), double cloth filter and disposable filter bag
- Single phase by-pass motor
- Based on a 4-wheel dolly for easy manoeuvrability
- Recovery capacity: 25 to 47,5 litres in the recovery tank and 9,5 to 19 litres in a disposable filter bag
- Optional middle ring with activated carbon cartridge (MRAC) available

Cleanroom compatible with ISO Class 4 (former Class 10).

ULPA vacuum cleaner is aerosol leak tested.

Delivery information: Complete tool kit included.

Model	CWR-15 POLY	CWR-8 POLY
Air Flow	188,59 m³/h	
Vacuum pressure	85,8 Inches H2O	
Filters	ULPA Filter - Included with an efficiency of 99,999% on 0,12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99,9995% on 0,18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822.	
Phase	einphasig	
Recovery	47,3 Liter (Nass) 47,3 Liter (trocken)	24,6 Liter (nass) 24,6 Liter (trocken)
Horsepower	1,4 PS	
Power	240 V, 50 Hz, 1050 W, 5 A	

Description	Pk	Cat. No.
Vacuum cleaner CWR-15 POLY, EU-plug	1	141-1079
Vacuum cleaner CWR-8 POLY, EU-plug	1	141-1080



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Cleanroom chairs and stools



Quality, together with health and safety, are also priorities for seating, especially when the immediate environment must be clean and sterile or when static charging is to be avoided.

Various cleanroom chairs are available for different applications. Our complete range of cleanroom chairs is excellently suited to cleanroom requirements. Their suitability has been checked and documented by the Fraunhofer Institute for Production Technology.

The high quality of the chairs, including minimal particle emission and reliable elimination of electrostatic charges, are proved by countless series of tests as well as daily experience.

Revolving cleanroom stools with flexible height adjustment employing gas-filled springs and large seat, upholstered with black, partially conductive artificial leather and with different seat heights. Stable base of pressure die-cast and polished aluminium with five feet. Also available for use on hard floor coverings or with abrasion resistant plastic sliders. Partially conductive.

Technical features



1) Sealed padding, foam injected

The artificial leather, padding and padding cover are permanently attached together to minimise particle emissions.

2) Enclosed mechanism

All moving parts of the chair are enclosed within seat and backrest. Particle emission is reliably minimised.

3) Cleanroom compatible materials

The base of the seat and the backrest cover are made from sheet steel. They are abrasion-proof. The electrically conductive leather upholstery can easily be cleaned and is non-slip even for smooth cleanroom clothing. The smooth surface impedes the deposition of particle contaminants on the chair.

4) Base pressure die-cast aluminium, optionally on castors or sliders

The aluminium stand is highly polished, abrasion-proof and electrically conductive. Instead of double safety castors the chairs can optionally be fitted with conductive sliders for hard surfaces.

5) Conductive to prevent electrostatic charges

Cleanroom chairs are electrically conductive and provide reliable protection from electro-static charging.

Ergonomic features



Optional of backrest in permanent contact or synchronous mechanism

6) Permanent contact

The backrest continuously adjusts to the movement of the upper body and creates a physiologically correct support of the main muscular and spinal parts.

7) Synchronous mechanism

The synchronous mechanism allows a synchronised movement of seat and backrest und supports the individual seating positions. This enables a relaxed musculature, intervertebral discs are effectively released, blood circulation is improved.

Clean Room Basic chairs
BIMOS



In order to create “clean” or “sterile” rooms, measures have to be implemented to prevent products and processes from becoming contaminated. This is a key requirement of the microelectronics sector, the pharmaceuticals industry, microsystem production, optics, medical engineering and healthcare. That is why bimos has worked together with industry and research specialists to develop its innovative range of cleanroom chairs for use in extreme conditions.

- The smooth, sealed surfaces of the seat and backrest shells prevent swirl even when there is a constant flow of air through the filter system and stop the build-up of particles on the chair
- The synthetic leather, upholstery and upholstery support are permanently bonded using special foam technology to ensure that no particles can be emitted
- Supplied with a brilliantly polished and abrasion resistant aluminium 5 star base
- The base frame, which is made from die-cast aluminium, is brilliantly polished with conductive castors/glides for hard floors
- The seat support and backrest cover are made of plastic
- Available in 3 versions: With contact backrest, contact backrest with tilting seat, and asynchronous mechanism with weight regulation

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
Clean Room Basic 2 with castors					
Clean Room Basic 2 chair, in skai® ESD synthetic leather, black, with contact backrest, backrest height: 430 mm	470 – 610	Castors	-	1	139-0579
Clean Room Basic 2 chair, in skai® ESD synthetic leather, black, with contact backrest with tilting seat, backrest height: 530 mm	470 – 610	Castors	-	1	139-0580
Clean Room Basic 2 chair, in skai® ESD synthetic leather, black, with synchronous mechanism with weight regulation, backrest height: 530 mm	470 – 610	Castors	-	1	139-0582
Clean Room Basic 3 with glides and step					
Clean Room Basic 3 chair, in skai® ESD synthetic leather, black, with contact backrest with tilting seat, backrest height: 530 mm	620 – 870	Glides	step	1	139-0581
Clean Room Basic 2 chair, in skai® ESD synthetic leather, black, with synchronous mechanism with weight regulation, backrest height: 530 mm	620 – 870	Glides	step	1	139-0583



Clean Room Plus chairs
BIMOS



The Clean Room Plus chairs are the flagship of the cleanroom seating solutions. They offer excellent cleanroom properties and are equipped with a perfect electrostatic discharge system. Furthermore, these chairs cannot fail to impress with their superb ergonomic design and luxurious level of comfort. Consequently, Clean Room Plus not only meets the technical requirements but also measures up to the expectations of those who work in cleanrooms every day.

On Clean Room Plus, the seat and backrest shells are made from sheet steel and provide optimum protection against particle emissions. The metal components have a conductive coating and the plastic components are volume conductive. These components are all light grey. The synthetic leather cover, which is also conductive, has non-slip properties and ensures a firm grip even when the user is wearing smooth clean room clothing.

- With a brilliantly polished and wear resistant aluminium 5 star base
- The seat support and backrest cover are both made from sheet steel, making them sturdy and durable
- The synthetic leather, upholstery and upholstery support are permanently bonded using special foam technology to ensure that no particles can be emitted
- The sealed design of the seat and backrest cover means that all the moving parts of the chair's mechanical system are enclosed so that particles cannot escape
- The smooth, sealed surfaces of the seat and backrest shells prevent swirl even when there is a constant flow of air through the filter system and stop the build-up of particles on the chair
- Available in two versions: Contact backrest or synchronous mechanism with weight regulation
- Seat and backrest height adjustment

Conform to DIN 68877
Air cleanliness classification 3 pursuant to DIN EN ISO 14644-1
Air cleanliness classification 1 pursuant to US Fed. St. 209 E
Provisions of the EU GMP guidelines
Electrostatic discharge measures pursuant to EN 61340-5-1

Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Clean Room Plus 2 chairs with castors						
Clean Room Plus 2 chair, made from Skai® ESD synthetic leather upholstery, black, with contact backrest, backrest height: 380 mm	440 – 565	Castors	-	-	1	139-0465
Clean Room Plus 2 chair, made from Skai® ESD synthetic leather upholstery, black, with contact backrest, backrest height: 500 mm	440 – 565	Castors	-	-	1	139-0462
Clean Room Plus 3 with glides and step						
Clean Room Plus 3 chair, made from Skai® ESD synthetic leather upholstery, black, with contact backrest, backrest height: 380 mm	630 – 890	Glides	Step		1	139-0466

Stools
BIMOS



Production stools:

- Extra large 40 cm diameter seats
- Hardwearing stools provide optimum support in industrial and workshop applications
- Sturdy steel 5 star base
- Encourage the posture in keeping with the natural S-shape of the spine
- Seat height adjustment based on pneumatic spring system

ESD standing rest and ESD stools:

- Pneumatic spring height adjustment system
- With conductive fabric or synthetic leather upholstery
- Conductive castors or glides (stools)

Cleanroom

- Base frame made from die-cast aluminium, brilliantly polished
- Conductive castors/glides for hard floors
- Synthetic leather cover with conductive and non-slip properties

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
Cleanroom					
Cleanroom Stool 1, made from Skai® ESD synthetic leather upholstery, with die-cast aluminium base frame	460 - 630	Glides	-	1	139-0585
Cleanroom Stool 3, made from Skai® ESD synthetic leather upholstery, with die-cast aluminium base frame	570 - 850	Glides	+	1	139-0586

Cleanroom ergo tables Palbam



Stainless steel 304 with electropolished finish and anodised aluminium connectors

These cleanroom tables are manufactured to the highest cleanroom standards. The bases are fabricated from tubing for easy cleaning and optimal airflow.

- Tables have fixtures enabling all the accessories to be attached at time of purchase or in the future if the need arises
- The tops are designed to reduce vibrations and are very strong holding up to 80 kg

Delivery information: The tables are shipped flat-packed with easy assembly instructions.

Description	WxDxH (mm)	Pk	Cat. No.
Cleanroom ergo table with perforated top			
Cleanroom ergo table, with perforated top	2000x760x900	1	132-1075
Cleanroom ergo table, with perforated top	800x760x900	1	132-1062
Description		Pk	Cat. No.
Accessories: Top shelves			
Top shelf, perforated, for cleanroom ergo table, with upright supports, WxDxH: 600x300x700 mm - match with table length: 600 mm Fabricated from stainless steel 304 with electropolished finish		1	132-1061
Top shelf, perforated, for cleanroom ergo table, with upright supports, WxDxH: 1000x300x700 mm - match with table length: 1000 mm Fabricated from stainless steel 304 with electropolished finish		1	132-1064
Top shelf, perforated, for cleanroom ergo table, with upright supports, WxDxH: 1100x300x700 mm - match with table length: 1100 mm Fabricated from stainless steel 304 with electropolished finish		1	132-1065
Top shelf, perforated, for cleanroom ergo table, with upright supports, WxDxH: 1300x300x700 mm - match with table length: 1300 mm Fabricated from stainless steel 304 with electropolished finish		1	132-1068
Top shelf, solid, for cleanroom ergo table, with upright supports, WxDxH: 1200x300x700 mm - match with table length: 1200 mm Fabricated from stainless steel 304 with electropolished finish		1	132-0380
Accessories			
Drawer unit, single, fully extendable, with lock, WxDxH 400x440x200 mm - attachable to Palbam tables		1	132-0390
Drawer unit, set of three, fully extendable, top drawer with lock, WxDxH 400x440x460 mm - attachable to Palbam tables		1	132-0391
Sliding keyboard shelf, WxDxH 500x463x112 mm, for all workstations - attachable to Palbam tables		1	132-0995

Cleanroom tables, heavy duty Palbam



Stainless steel 304 with electropolished finish and anodised aluminium connectors

These cleanroom heavy duty tables are designed for more robust and heavy duty activities and are manufactured to the highest cleanroom standards. The bases are fabricated from tubing for easy cleaning and optimal airflow.

- The tables have fixtures enabling all the accessories to be attached at time of purchase or in the future if the need arises
- The tops are designed to reduce vibrations and are very strong holding up to 100 kg

Delivery information: The tables are shipped flat-packed with easy assembly instructions (assembly time ~10 minutes). Other shelves are available upon request.

Description	WxDxH (mm)	Pk	Cat. No.
Cleanroom table with perforated top			
Cleanroom heavy duty table, with perforated top	1200x760x900	1	132-0374
Cleanroom tables with solid top			
Cleanroom heavy duty table, with solid top	1200x600x750	1	132-1066
Cleanroom heavy duty table, with solid top	1400x600x750	1	132-1069
Cleanroom heavy duty table, with solid top	1600x600x900	1	132-1071
Cleanroom heavy duty table, with solid top	800x760x900	1	132-1063
Cleanroom heavy duty table, with solid top	1200x760x750	1	132-1067
Cleanroom heavy duty table, with solid top	1200x760x900	1	132-0362
Cleanroom heavy duty table, with solid top	1500x760x900	1	132-1070
Cleanroom heavy duty table, with solid top	1600x760x900	1	132-1072
Cleanroom heavy duty table, with solid top	1700x760x900	1	132-1074
Description		Pk	Cat. No.
Accessory: Bottom shelf			
Cleanroom heavy duty bottom solid shelf for cleanroom heavy duty tables, solid, LxW: 1600x300 mm (match only with table 1600 mm) Fabricated from stainless steel 304 with electropolished finish		1	132-1073

Continued from previous page

Description	Pk	Cat. No.
Accessory: Bottom shelf		
Cleanroom heavy duty bottom solid shelf for cleanroom heavy duty tables, solid, LxW: 1600x300 mm (match only with table 1600 mm) Fabricated from stainless steel 304 with electropolished finish	1	132-1073
Accessories		
Drawer unit, single, fully extendable, with lock, WxDxH 400x440x200 mm - attachable to Palbam tables	1	132-0390
Drawer unit, set of three, fully extendable, top drawer with lock, WxDxH 400x440x460 mm - attachable to Palbam tables	1	132-0391
Sliding keyboard shelf, WxDxH 500x463x112 mm, for all workstations - attachable to Palbam tables	1	132-0995

Wipe down table
Palbam



Stainless steel 304 with electropolished finish

The wipe down table is designed to support the wipe down procedure. Includes a hole in the table top for easy waste disposal. The cabinet under the table and under the waste disposal hole has a removable plastic bin included inside.

Description	WxDxH (mm)	Pk	Cat. No.
Wipe down table, with waste disposal hole on top and a cabinet under the table with removable plastic bin	1200x600x920	1	134-0489



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Cleanroom tables, BLAUTOUCH
Laborial



First interactive worktop for laboratories, cleanrooms and healthcare

It consists in a glass and phenolic resin interactive worktop completely frameless, integrated in a special laboratory metallic structure. At the same it works as a regular worktop and solves the problems associated to the use of tablets, notebooks, PCs, keyboards and mouse in places where contamination is critical. It allows the access to any laboratory software like electronic notebooks, LIMS, Wikis, analysis software, Office and others, on the laboratory workbench, within the standards maintaining an aseptic environment.

- Ultra-clean solution (aseptic surface without edges)
- Easy to clean and disinfect
- Allows the use of gloves; immune to non conductive objects
- Avoids biological, chemical and radioactive contamination
- High chemical and mechanical resistance
- High safety and structural stability
- Solution towards paperless laboratory; space saver

- Allows laboratories to comply with safety guidelines
- Modular

Workbench developed according to EN 13150
Developed according to GMP guidelines "EudraLex Vol 4, Chapter 3: Premises and Equipment"
ST37-2 steel according to DIN 17100
ST12 steel according to DIN 1623
Powder coating according to the finishing's European Standards, GBS, Qualicoat Class 1 and BS6496:1984, BS6497:1984.

Material:

- Worktop surface in tempered glass worktop on top of a second worktop of phenolic resins
- Sealed electronic components enclosure in ST12 steel
- "C" frame made in ST37-2 steel
- Linking frame in ST12 cold rolled steel
- Powder coating with high chemical resistance based in a mixture of epoxy polyester resins
- Every metallic components with powder coating
- 2 M10 levelers in steel and polyethylene stoppers, at the base

Touch specifications:

- Touch technology: State-of-the-art projected capacitance technology
- Touch accuracy: 1 mm relative
- Touch latency: 22 ms
- Input method: Finger, gloved finger
- Touch gestures: Microsoft Windows 7 and Windows 8 Touch Gestures – Tap and Double-Tap, Selection/ Drag, Press and Tap with second finger, zoom, rotate, press and hold, flicks

Display specifications:

- Display technology: LCD-LED
- Display size: 27"
- Native resolution: Full-HD 1920 x 1080
- Display colours: 16,7 million
- Brightness: 250 cd/m²
- Contrast ratio: 5,000,000:1
- Viewing angle: 178°/168°

Embedded computer specifications:

- CPU: Intel™ core i3 330M @ 1.20GHz or equivalent
- RAM: 2GB RAM DDR3 1066MHz
- Hard disk: 320/500 GB SATA
- Wi-Fi: Compatible WPA/802.11 a/b/g/n - IEEE 802.1x
- Operating system: Windows 7 32/64-bit and Windows 8 32/64-bit (optional)
- I/O connections: 3xUSB A and 1x RJ45

Environment specifications:

- Operating temperature: 0 to +25 °C
- Relative humidity: 20–80% (non condensing)

Description	WxDxH (mm)	Pk	Cat. No.
BLAUTOUCH Interactive worktop frame "C", tempered glass 8 mm (black), steel with powder coating epoxy-polyester (white) + windows, without scanner for 2D barcode reading	1200x750x900	1	132-0982
BLAUTOUCH Interactive worktop frame "C", tempered glass 8 mm (black), steel with powder coating epoxy-polyester (white) + windows + scanner for 2D barcode reading	1200x750x900	1	132-0983

Shelving units
Palbam



Stainless steel 304 with electropolished finish

High quality cleanroom shelving units on leveller legs with height adjustable feet or on white nylon 130 mm (5") cleanroom casters.

- Shelf options: Solid or perforated
- Shelves are removable or height adjustable every 200 mm (8")
- 4 shelves per unit (extra shelves can be ordered separately)

Description	Material	WxDxH (mm)	Pk	Cat. No.
Shelf units, solid				
4 solid shelves, on castors	Stainless steel 304	1000x400x1900	1	132-0999
4 solid shelves, on leveller legs	Stainless steel 304	1000x400x1900	1	132-0998
4 solid shelves, on castors	Stainless steel 304	1000x600x1900	1	132-1058
4 solid shelves, on leveller legs	Stainless steel 304	1000x600x1900	1	132-1057
Shelf units, perforated				
4 perforated shelves, on leveller legs	Stainless steel 304	1200x400x1900	1	132-1059
4 perforated shelves, on leveller legs	Stainless steel 304	1300x400x1900	1	132-1060
4 perforated shelves, on castors	Stainless steel 304	1000x600x1900	1	132-1056



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Full length storage cabinets
Palbam



Stainless steel 304 with electropolished finish

- Removable shelves and sloping roof design as standard
- Available on either casters or leveller legs
- Assembly is quick and easy requiring no special tools or expertise

Delivery information: Designed to be shipped flat-packed for self-assembly. Assembly instructions are included with all cabinets.

Description	WxDxH (mm)	Doors	Pk	Cat. No.
Full length cabinet on leveller legs, with 6 shelves	1200x600x2100	2	1	132-0993
Full length cabinet on casters, with 6 shelves	1200x600x2100	2	1	132-0994

Full length cabinets with swing doors
Palbam



Stainless steel 304 with electropolished finish

- Assembly is quick and easy requiring no special tools or expertise

Packaging: Cabinets are shipped flat packed, for easy assembly by the customer.

Description	WxDxH (mm)	Doors	Pk	Cat. No.
Safety cabinet, for cleanroom, full length, with six shelves	1000x380x2000	4	1	132-0402
Safety cabinet, for cleanroom, full length, with six shelves	1200x450x2000	4	1	132-0997

Wall-mounted cabinets
Palbam



Stainless steel 304 with electropolished finish

- High quality finish

Packaging: Shipped flat-packed for simple assembly by the customer. Assembly instructions included.

Description	WxDxH (mm)	Doors	Pk	Cat. No.
Wall-mounted cabinet, with 6 shelves	920x300x800	2	1	132-0401

Utility carts
Palbam



Stainless steel 304 with electropolished finish

These cleanroom carts are designed to withstand heavy loads.

- Up to 60 kg per shelf
- Integral raised ledges prevent parts from rolling off and are easy to wipe down
- Choice of 2 or 3 shelves
- Solid or perforated
- White nylons 130 mm (5") cleanroom casters (2 with brakes)

Delivery information: Shipped flat-packed with assembly instructions.

Description	WxDxH (mm)	Shelves	Pk	Cat. No.
Utility carts with solid shelves				
Utility cart, stainless steel, with castors (2 with brakes)	550x550x990	2 étagères pleines	1	139-0588
Utility cart, stainless steel, with castors (2 with brakes)	865x550x990	2 étagères pleines	1	139-0589
Utility cart, stainless steel, with castors (2 with brakes)	865x550x990	3 étagères pleines	1	139-0590
Utility carts with perforated shelves				
Utility cart, stainless steel, with castors (2 with brakes)	865x550x990	2 étagères perforées	1	139-0591

Tool cart
Palbam



Stainless steel 304 with electropolished finish

- Five fully extendable drawers
- One lock which secures all the drawers
- Top ledge to prevent tools/parts falling
- Cleanroom castors with brakes

Description	WxDxH (mm)	Pk	Cat. No.
Tool cart, with 5 drawers, secure lock and cleanroom castors with brakes	730x470x850	1	139-0026

Particle counter transport cart
Palbam



Stainless steel 304 with electropolished finish

This cart is specially designed for transporting particle sensing machines around the cleanroom environment.

- Ergonomic design
- Shock absorbing system in each wheel protects the valuable particle sensor from vibrations and shocks

Description	WxDxH (mm)	Shelves	Pk	Cat. No.
Transport cart, for particle counter, with solid shelves and shock absorbing system in each wheels	691x490x1000	2	1	139-0587

Gownracks for full length overalls
Palbam



Stainless steel 304L with electropolished finish

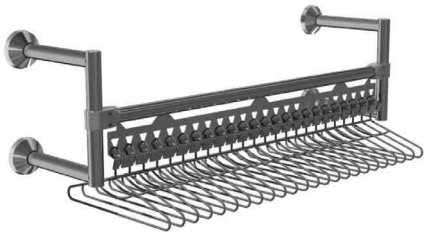
- Rack design holds each hanger at exactly the same angle and spacing ensuring a uniform appearance, creating an image of orderliness and allowing sufficient laminar flow
- Optional mirrors (purchased separately) can be connected to side panels, enhancing both aesthetics and functionality
- Each gownrack is supplied with hangers, labelling numbers and leveller legs with integral covers
- Hangers - the thickness of the material ensures non deforming

Delivery information: Flat-packed and easy to assemble.

Description	WxDxH (mm)	Pk	Cat. No.
Hanger unit, long, with 8 hangers	585x567x2100	1	134-0490
Hanger unit, long, with 16 hangers	947x567x2100	1	134-0491
Hanger unit, long, with 24 hangers	1328x567x2100	1	134-0492
Hanger unit, long, with 32 hangers	1709x567x2100	1	134-0493
Hanger unit, long, with 40 hangers	2090x567x2100	1	134-0494

Description	Pk	Cat. No.
Accessories		
Face mirror, wall-mounted, small, 400x500 mm	1	132-0984
Mirror panel for short gownrack, height 1750 mm	1	132-0996

Gownracks, wall-mounted
Palbam



Stainless steel 304 with electropolished finish

- Gownracks include stainless steel hangers
- The design aligns the hangers, keeping an orderly appearance and ensuring the hangers do not touch each other

Delivery information: Shipped flat-packed with assembly instructions.

Description	WxDxH (mm)	Pk	Cat. No.
Wall-mounted garment rack + 8 hangers	585x468x470	1	132-0988
Wall-mounted garment rack + 16 hangers	947x468x470	1	132-0989
Wall-mounted garment rack + 24 hangers	1328x468x470	1	132-0990
Wall-mounted garment rack + 32 hangers	1709x468x470	1	132-0991
Wall-mounted garment rack + 40 hangers	2090x468x470	1	132-0992



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Basic cleanroom benches
Palbam



Stainless steel 304 with electropolished finish

- Rounded edges
- Height adjustable legs
- Leg covers (covers unsightly bolt connections to floor)
- No snag points
- Ultra clean

Description	WxDxH (mm)	Pk	Cat. No.
Basic cleanroom bench	600x350x450	1	134-0496
Basic cleanroom bench	800x350x450	1	134-0497
Basic cleanroom bench	1000x350x450	1	134-0498
Basic cleanroom bench	1200x350x450	1	134-0499
Basic cleanroom bench	1400x350x450	1	134-0500

Swing over bench
Palbam



Stainless steel 304 with electropolished finish

This bench is specifically designed to assist in putting on shoe covers - by supporting the foot with a small raised platform. Two or more benches can be connected together (either seat-to-seat or foot support-to-foot support) to create the ideal step over bench.

- The bench can also be used as a separation barrier between pre-gowning and gowning areas
- Optional connection pieces allow benches to be joined together (see accessories)

Description	WxDxH (mm)	Pk	Cat. No.
Swing over bench	850x350x450	1	134-0501

Description	Pk	Cat. No.
Accessories		
Bench corner connector 45°	1	134-0480
Bench corner connector 90°	1	134-0481



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Cleanroom dispensers for personal protective equipment
Palbam



Stainless steel 304 with electropolished finish

These wall-mounted dispensers are designed to provide clean and efficient dispensing and storage. They are suitable for gloves, hairnets, face masks and shoe covers in the cleanroom industries, such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- Eliminate particle build-up
- Smooth curved opening for easy, snag-free pull out
- Feature built-in trap bins, see-through slots, and top lid for easy refilling

ISO certified

Note - Either two 134-0502 or one 134-0504 can be mounted above 134-0486 for a complete dispensing / disposal system.

Description	WxDxH (mm)	Pk	Cat. No.
Cleanroom dispenser with one compartment	200x205x600	1	113-8052
Cleanroom dispenser with two compartments	400x205x600	1	113-7992
Cleanroom dispenser with two compartments (long version)	400x220x1000	1	134-0502
Cleanroom dispenser with three compartments	600x205x600	1	134-0503
Cleanroom dispenser with four compartments	800x205x600	1	134-0504

Dispensers with sloping top
Palbam



Stainless steel 304, electropolished finish

These wall-mounted dispensers are designed for clean and efficient dispensing and storage of gloves, hairnets, face masks and shoe covers in the cleanroom industries, such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- Eliminate particle build-up
- Smooth curved opening for easy, snag-free pull out
- Sloping tops prevents articles being placed in dispensers

ISO certified

Description	WxDxH (mm)	Pk	Cat. No.
One compartment dispenser, GD-2060-S	200x205x600	1	113-8178
Two compartment dispenser, GD-4060-S	400x205x600	1	113-8179
Three compartment dispenser, GD-6060-S	600x205x600	1	113-8180
Four compartment dispenser, GD-8060-S	800x205x600	1	113-8181

Dispensers for sterile gloves
Palbam



Stainless steel 304, electropolished finish

These wall-mounted dispensers are designed for packaged sterile gloves. Loaded at the top, the slot allows for easy stacking of the packets within the dispenser. Individual packets can then be withdrawn from the bottom slot.

ISO certified

Description	WxDxH (mm)	Pk	Cat. No.
Dispenser with two compartments for sterile gloves packets (279x152 mm)	620x185x610	1	113-8182
Dispenser with three compartments for sterile gloves packets (279x152 mm)	870x180x600	1	134-0484
Dispenser with four compartments for sterile gloves packets (279x152 mm)	680x200x600	1	134-0485

Gown and hood dispenser
Palbam



Stainless steel 304, electropolished finish

This wall-mounted dispenser has been designed for plastic wrapped gowns and hoods in the cleanroom industries, such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- Easy refilling and easy retrieval
- Designed to prevent spillage of items
- Can be adapted for use as a general dispenser

ISO certified

WxDxH (mm)	Pk	Cat. No.
300x240x800	1	113-8175

Safety spectacles dispenser
Palbam



Stainless steel 304, electropolished finish

This dispenser is suitable for use with safety spectacles in the cleanroom industries, such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- High quality design
- Four holes for stable wall mounting
- Clear front panel for higher visibility
- Protection against splashes and impacts

ISO certified

WxDxH (mm)	Pk	Cat. No.
300x200x400	1	113-8174

Cleanroom waste receptacles
Palbam



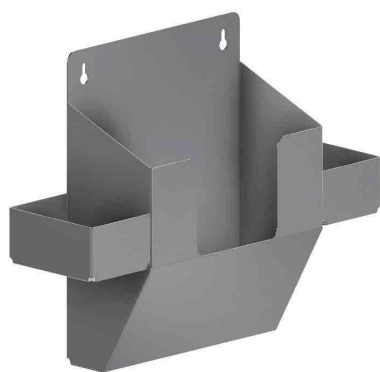
Stainless steel 304, electropolished finish

These round waste receptacles include an internal nylon holder and lid. The lid has a large opening for easy disposal.

- No need to come in contact with the bin
- No flaps or other devices are attached, as these just increase contact between user and the waste bin
- Free-standing model is mounted on casters which are hidden from view

Description	Capacity (l)	WxDxH (mm)	Pk	Cat. No.
Waste receptacle, bench-mounted	40	355x355x450	1	134-0488
Waste receptacle, free-standing	60	355x355x650	1	134-0505
Waste receptacle, floor-mounted	40	355x355x700	1	134-0506
Waste receptacle, wall-mounted	40	355x355x450	1	129-1095

Wipes and bottle dispenser
Palbam



Stainless steel 304, electropolished finish

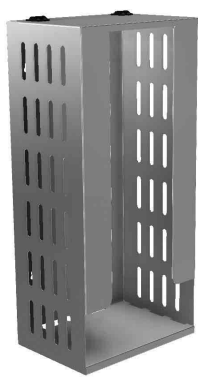
This wall-mounted dispenser is designed for wipes and IPA bottles used in industries such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- No lid, allows one-handed use
- Two holes for stable mounting to wall
- Essential to cleanroom wipe-down procedures

ISO certified

WxDxH (mm)	Pk	Cat. No.
395x115x310	1	113-8176

Folded gown dispensers
Palbam



Stainless steel 304, electropolished finish

These dispensers are suitable for packs of folded gowns in cleanrooms, for use in industries such as pharmaceutical, biotechnology, medical device, microelectronics and nanotechnology.

- High quality design
- Can be wall-mounted
- Hold a pack of folded gown

ISO certified

WxDxH (mm)	Pk	Cat. No.
350x250x750	1	113-8173
410x310x750	1	113-8177



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Horizontal laminar flow product protection workbenches, CLF

Telstar



The versatile CLF series is suitable for working with non hazardous materials that require a low-particle working environment. HEPA filtered air is passed horizontally over the work surface to ensure a Class 100 (ISO 5) cleanroom environment. For use in the pharmaceutical industry, biotechnology, hospitals, university and scientific laboratories as well as cell and tissue culture laboratories. The highest quality materials are used to ensure very quiet running, the noise level is 56 dB(A). Integral alarm function (visual and audible).

- Impact resistant housing made from epoxy coated steel
- The work surface is optionally available in laminated plastic or stainless steel
- The pre-filter and HEPA filter are easy to replace
- The side walls are made of safety glass
- Microprocessor control display with electronic flow control shows all important data at a glance

EN 1822 (HEPA filter type H14); EN 779 (pre-filter type G3)

Delivery information: This model cannot be delivered with a front panel.

Model	CLF 475	CLF 575	CLF 675
Total volume (m³/h)	1135	1500	1700
Noise level (dB(A))	56		
Power rating (kW)	0,65		0,70
Electrical supply	230 V/50 Hz/16 A		
External WxDxH (mm)	1290x890x1350	15950x890x1350	1900x890x1350
Internal WxDxH (mm)	1190x580x730	1495x580x730	1800x540x735
Weight (kg)	225	270	325
Filters	HEPA filter type H14; pre-filter type G3		

Description	Pk	Cat. No.
CLF 475, with stainless steel worktop	1	135-0097
CLF 575, with stainless steel worktop	1	135-2039
CLF 675, with stainless steel worktop	1	135-0099

Description	Pk	Cat. No.
Accessories		
Support frame for CLF 475, epoxy coated, working height 810 mm	1	135-0073
Support frame for CLF 675, epoxy coated, working height 810 mm	1	135-0074
Electrical bunsen burner with connection	1	451-0134
Gas tap, single	1	135-0075
Gas tap, double	1	135-0106
Triple sockets (D/NL/TR)	1	135-0109
Triple sockets (B/CZ/F)	1	135-1534
Triple sockets (UK/HKG/IRE)	1	135-1535
UV armature for CLF-DLF	1	135-0076

Vertical laminar flow product protection workbenches, DLF

Telstar



The versatile DLF series is suitable for working with non hazardous materials that require a low-particle working environment. For use in the pharmaceutical industry, biotechnology, hospitals, university and scientific laboratories as well as cell and tissue culture laboratories. The highest quality materials are used to ensure very quiet running, the noise level is 58 dB (A). Integral alarm function (visual and audible).

DLF 360 PCR is fitted with a stainless steel worktop, folding acrylic window, UV lamp and operating hours counter as standard. The standard UV lamp reliably protects against cross-contamination by nucleic acid. The folding PC window is resistant to UV.

- Cleanroom Class 100 (ISO 5)
- Impact resistant housing made from epoxy-coated steel
- The pre-filter and HEPA filter are easy to replace
- Microprocessor control display with electronic Flow Control shows all important data at a glance

EN 1822 (HEPA filter type H14); EN 779 (pre-filter type Type G4)

Delivery information: Delivery prices available upon request. Installation and commissioning prices available on request.

Model	DLF 360	DLF 460	DLF 560	DLF 660
Total volume (m³/h)	680	900	1150	1360
Power rating (kW)	0,65			
External WxDxH (mm)	985x740x1340	1290x740x1340	1595x740x1340	1900x740x1360
Internal WxDxH (mm)	885x600x685	1190x600x685	1495x600x685	1800x600x685
Weight (kg)	150	200	250	300
Filters	HEPA filter type H14 pre-filter type Type G4			

Continued from previous page

Description	Pk	Cat. No.
DLF 360, with sliding safety glass window	1	135-1513
DLF 460, with sliding safety glass window	1	135-1501
DLF 560, with sliding safety glass window	1	135-1514
DLF 660, with sliding safety glass window	1	135-1515

Description	Pk	Cat. No.
Accessories		
Support frame for DLF 360, epoxy-coated, working height 900 mm	1	135-0083
Support frame for DLF 460, epoxy-coated, working height 900 mm	1	135-0084
Support frame for DLF 560, epoxy-coated, working height 900 mm	1	135-0085
Support frame for DLF 660, epoxy-coated, working height 900 mm	1	135-0086
Socket, single (D/NL/TR)	1	135-0107
Socket, double (D/NL/TR)	1	135-0108
Socket, double (UK/HKG/IRE)	1	135-0119
Gas tap, single	1	135-0091
Vacuum connection, single	1	135-0092
UV armature for DLF 360, on the rear with operating hours counter	1	135-0093
UV armature for CLF-DLF	1	135-0076

Horizontal laminar flow cabinets, Heraguard™ ECO
Thermo Scientific



Heraguard™ ECO Clean Bench cabinets are ideal for laboratory applications where sample protection is required. Due to DC motors, Heraguard™ ECO Clean Bench cabinets use less energy to operate so there is less heat emitted into the laboratory.

They are available with interior widths of 900, 1200, 1500 and 1800 mm and are offered in two different working heights:

- standard work space height 650 mm
- extra work space height 950 mm

The side windows are made of tempered safety glass and the tabletop of white melamine.

- Easy to use, intuitive control panel
- All-round vision: The side windows increase the light inside the work area and support a comfortable work environment
- Easy prefilter and HEPA filter exchange
- Transparent hinged wind screen protects the user
- Side panels made from single-pane safety glass, with an access port for tubing or for installing a media tap

Delivery information: Supplied with melamine benchtop, lighting, one access port in each side panel and operating hours counter. Available with optional stainless steel work surface, UV lamp, side panels with access ports or combi panels with access ports, please ask your local VWR sales representative for details. Delivery, installing and commissioning prices available on request, please contact VWR.

Model	ECO 0,9	ECO 1,2	ECO 1,5	ECO 1,8
Air velocity (m/s)	0,15 - 0,25			
Lighting	>1000 lux			
Noise level (dB(A))	<55 (level I) <60 (level II)			
External WxDxH (mm)	1100×810×1170	1300×810×1170	1600×810×1170	1900×810×1170
Internal WxDxH (mm)	920×585×645	1220×585×645	1520×585×645	1820×585×645
Weight (kg)	90	120	140	150
Filters	Prefilter type EN 779 G3 dust filter, filtering efficiency: coarse-medium HEPA filter			

Description	Pk	Cat. No.
Clean Bench, Heraguard™ ECO 0,9	1	135-1737
Clean Bench, Heraguard™ ECO 1,2	1	135-1738
Clean Bench, Heraguard™ ECO 1,5	1	135-1739
Clean Bench, Heraguard™ ECO 1,8	1	135-1740

The height is given without base frame.



Handheld airborne particle counters, MET One HHPC



Quickly check or validate ISO Class 5 (FED STD Class 100) or higher cleanrooms and controlled environments. The easy to read, high resolution display is fully configurable, showing only the required data in a clear large font. At only 680 g the slim design of MET One HHPC+ allows single-handed operation. Perfect for effortless troubleshooting of filter leaks in mini environments and workstations. Save analysis time with on-the-spot process profiling to pinpoint particle events. Download to Excel® via Ethernet using industry standard browsers (Internet Explorer®, Safari®, Firefox®, etc.). Plug a USB memory stick in the MET One HHPC+ to transfer your particle data direct to a PC. Plug it in like a camera, the data appears in Excel®. The optional charging cradle provides PC access to particle counting data via ports for Ethernet or USB cables. Leaving the unit on the cradle in the cleanroom ensures the unit is fully charged and ready for use at all times.

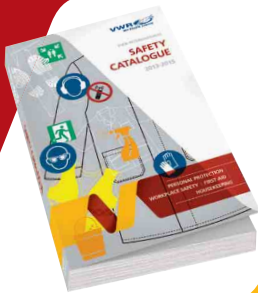
- Simple and fast
- Lightweight and comfortable
- Visual particle trending
- Easy data download

Delivery information: The systems are delivered with hard shell carrying case (optional for HHPC 2+), universal 110/240 V, 12 VDC power supply/charger, zero count inlet filter, zero count filter adapter, USB-A to MINI-B-5P cable (1,83 m) with ferrite. The HHPC 6+ is also delivered with charging and communications cradle, without ethernet cable.

Model	MET One HHPC 2+, two channel (0,5 - 5 µm)	MET One HHPC 3+, three channel (0,3 - 10 µm)	MET One HHPC 3+, three channel (0,5 - 5 µm)	MET One HHPC 6+, six channel (0,3 - 10 µm)
Airflow rate	2,83 l/min, 0,5 µm/min	2,83 l/min, 0,3 µm/min	2,83 l/min, 0,5 µm/min	2,83 l/min, 0,3 µm/min
Material	Polycarbonate			
Power	110/240 V			
WxDxH (mm)	99x53x272			
Weight (kg)	0,68			

Description	Pk	Cat. No.
MET One HHPC 2+, two channel (0,5 - 5 µm)	1	710-0980
MET One HHPC 3+, three channel (0,3 - 10 µm)	1	710-0979
MET One HHPC 3+, three channel (0,5 - 5 µm)	1	710-0981
MET One HHPC 6+, six channel (0,3 - 10 µm)	1	710-0982

Description	Pk	Cat. No.
Accessories		
Charging and communications cradle without cable	1	710-0984
Zero count filter adapter	1	710-0985
Universal 110/240 V, 12 VDC power supply charger	1	705-0745
USB-A to MINI-B-5P cable 6' with ferrite	1	705-0746
CAT-5E 7' ethernet cable	1	705-0747
CAT-5E 7' ethernet cable, shielded grey	1	705-0748
User manual	1	710-0986
Zero count inlet filter	1	661-0154



VWR SAFETY CATALOGUE

From head to toe protection

Request your copy from your local VWR sales office or vwr.com



CO₂, humidity and temperature data loggers



These multiple parameter meters simultaneously measure and record CO₂, humidity and temperature. Use the SW2.1 software to program, download data and save logged files.

- Maximum, minimum and average value display
- Display with backlight
- Mini USB port for connection to a PC
- HYGROMER® IN-1 humidity sensor
- Calculate dew point and wet bulb temperature (only CP11)

Delivery information: The CL11 is delivered with an AC adapter. Both devices are delivered with the SW2.1 software.

Description	Range (°C)	Accuracy	Memory	WxDxH (mm)	Weight (g)	Pk	Cat. No.
CL11, benchtop	0...5000 ppm; 0...100% rF; -20...+60	±30 ppm ±5% of m.v. / ±2,5 % RH / ±0,3 K	40 000 values	120x45x157	200	1	620-2320
CP11, handheld	0...5000 ppm; 0,1...99,95% rF; -20...+60	±30 ppm ±5% of m.v. / ±2,5 % RH / ±0,3 K	18 000 values	77x42x234	290	1	620-2321

Description	For	Pk	Cat. No.
Probe for CO₂, humidity and temperature data loggers			
External temperature probe for CL11		1	620-2319
Standards			
Humidity standard 35% RH		5 Ampoul	620-2224
Humidity standard 80% RH		5 Ampoul	620-2226
Accessories			
Zero calibration kit including 10 cartridge filters	CP11 and CO ₂ -Display	1 KIT	620-2755
Set with 5 CO ₂ cartridges		5	620-2756
AC adapter for CP 11		1	620-2318
Push-on calibration device, Ø: 14 - 15 mm, brass, nickel-plated for one probe incl. gasket with O-ring and thumb screw		1	620-2227



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CO₂ display for monitoring indoor air quality (IAQ)



The wall-mounted or benchtop CO₂ display evaluates the quality of air with a combined measurement of CO₂, humidity and temperature. The instrument can be configured directly with buttons and recorded data can be exported to a USB stick for analysis with the software package SW21. A high concentration of carbon dioxide can develop quickly when closed rooms with deficient ventilation are filled with people. The CO₂-display is suitable for monitoring of IAQ in laboratories, class- and meeting rooms, open-plan offices, shopping centres, fitness studios and ambulances.

- HYGROMER® IN-1 humidity sensor
- Adjustable, visual CO₂ indicator - CO₂ indicator for quick recognition of air quality
- Easy recalibrate and adjustment function for humidity and CO₂
- Large, easy to read display (date and time)
- USB access for data download

Delivery information: Supplied with a factory adjustment certificate, an adapter AC1214, screws and plugs for mounting and short instruction manual.

Accuracy	Memory	Pk	Cat. No.
±2,5 % RH; ±0,3 K / ±30 ppm +5 % of m.v.	18 000 values	1	620-2757
Description	For	Pk	Cat. No.
Standards			
Humidity standard 35% RH		5 Ampoul	620-2224
Humidity standard 80% RH		5 Ampoul	620-2226
Accessories			
Zero calibration kit including 10 cartridge filters	CP11 and CO ₂ -Display	1 KIT	620-2755
Set with 5 CO ₂ cartridges		5	620-2756
Push-on calibration device, Ø: 14 - 15 mm, brass, nickel-plated for one probe incl. gasket with O-ring and thumb screw		1	620-2227



Temperature loggers, EBI 300 and 310

Ebro



Temperature loggers



Probe, TPX 250



Wall mount

These temperature loggers with USB connection need no interface for programming or read-out. An automatic PDF report can be generated without any software.

EBI 300: Related to HACCP/IFS issues or other perishable goods (EN 12830, ATP, VO(EG) 37/2005 compliant), transport of fresh, chilled and frozen products, monitoring of fridges and freezers.

EBI 310: For pharmaceutical, medical or other perishable goods, transport of drugs, vaccines and blood products, temperature monitoring of dry ice (with TPX 250) and cryogenic (with TPX 220) shipments, validation of temperature during transport and storage.

- User friendly, waterproof
- LED display: Minimum and maximum values
- Two limit LED alarm - or five ranges for 620-1814

Conform with IP 65 - 620-1814 is CFR 21.

WxDxH: 80x34x14 mm

Weight: 35 g

Delivery information: Supplied with a two year life battery.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Memory	Pk	Cat. No.
USB data logger with NTC probe, EBI 300	-30...+60	±0,5 (-20...+40); ±0,8	0,1	40 000 values	1	620-1815
USB data logger with PT1000 probe, EBI 310	-30...+75	±0,2	0,1	120 000 values	1	620-1814
Description					Pk	Cat. No.
Probes						
External NTC probe for EBI 300, ØxL: 4x50 mm, TPC 300					1	620-1860
External PT1000 probe for EBI 310, ØxL: 5x50 mm, TPX 220					1	620-1861
External PT1000 probe for EBI 310, TPX 250					1	620-1863

Continued on next page

Continued from previous page

Description	Pk	Cat. No.
Accessories		
Wall mount	1	620-1859



Temperature and pressure loggers, waterproof, EBI 100
Ebro



EBI 100-T241



EBI 100-TP200

PT1000 internal sensor

The EBI 100 data loggers are suitable for the monitoring of autoclaves and heating cabinets. They can be used during validation processes.

- Measurement without radio technology
- Programming and evaluation with PC
- Monitors hot processes up to 150 °C

WxDxH: 48x48x24 mm

Weight: 70 g

Delivery information: Supplied with a factory calibration certificate.

Description	Range (°C)	Accuracy (°C)	Resolution (°C)	Memory	Pk	Cat. No.
EBI 100-T100, one temp. sensor	−40...+150	±0,3	0,1	27 000 values	1	620-1680
EBI 100-T230, one temp. needle sensor	−40...+150	±0,3	0,1	27 000 values	1	620-1696
EBI 100-T241, one temp. flexible probe (500x1,5 mm)	−40...+150	±0,3	0,1	27 000 values	1	620-1697
EBI 100-TP200, two temp. and pressure probes	0...150 °C; 1 - 4000 mbar	±0,3 °C; 20 mbar	0,1 °C; 0,1 mbar	27 000 values	1	620-1681
EBI 100-TP 230, two temp. and pressure probes	0...+150 °C; 1 - 3500 mbar	±0,1 °C; ±15 mbar	0,01 °C; 0,01 mbar	27 000 values	1	620-1706

Description	Pk	Cat. No.
Accessories		
IQ-OQ Winlog.pro software	1	620-1694
Interface EBI-IF-100 and Winlog.pro software	1	620-1695
Interface EBI-IF-200 and Winlog.pro software	1	620-1678
Interface EBI-IF-300 and Winlog.pro software	1	620-1679



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Analytical balances, Explorer® series

Ohaus



A range of 4-place balances that incorporate touch screen, advanced weighing and proximity sensor technologies. The easy to use control unit can be mounted on the base, above the base on an optional column, on a wall or remotely (up to 3 m distance with an optional cable). The touch screen display with universal icons and informative prompts simplifies set-up functions and basic operation. The operator has the added choice to use the proximity sensors for hands-free operation for handling sensitive samples. The balances have multiple application modes for basic weighing to SQC applications together with short stabilisation times and optimised performance specifications.

The balances feature a frameless glass draught shield with easy access, central light and removable doors for cleaning.

- Colour touch screen display with viewing angle adjustment in a demountable control unit
- Advanced weighing technology with stabilisation times of less than 3 seconds
- SmarText™ software with text prompts for ease of menu navigation including ‘Level assist’ feature with illuminated level indicator
- AutoCal™ internal calibration
- Dual multifunctional proximity sensors for hands-free operation of basic or user-selectable functions

Ordering information: A selection of OIML EC approved balances are also available from VWR. For models with automatic draught shield door operation via touch-free sensors and also a full range of accessories for the Explorer® balances, please contact your local VWR sales office.

Model	Readability (mg)	Weighing cap. (g)	Pan (mm)	Pk	Cat. No.
EX124	0,1	120	Ø 90	1	611-2393
EX224	0,1	220	Ø 90	1	611-2394
EX324	0,1	320	Ø 90	1	611-2396

Model	Readability (mg)	Weighing cap. (g)	Pan (mm)	Pk	Cat. No.
OIML EC type approved balances					
EX224M	0,1	220	Ø 90	1	611-2395
EX324M	0,1	320	Ø 90	1	611-2397



Tablet camera, VisiCam®, TC 100



This tablet PC (Acer Aspire Switch 10) features an integrated camera to be installed on almost any trinocular microscope with the correct C-mount adapter. The high performance camera is equipped with a CMOS sensor (½ 5") and an USB port.

- Detachable keyboard with touch pad
- Imaging software: Live display, image capture, video recording, image size, color enhancement, brightness gain, data export to pdf or excel formats
- Pictures format: JPEG, GIF, BMP, PNG / 10
- Operating system: Windows 8.1 (32 bit) - Intel® Atom™ Z3735F, Quad core (4 Core); 1,33 GHz
- Monitor: LED display 10,1" IPS multi-touch screen. Resolution: 5,0 MP
- Graphic card: Intel® HD Graphics 3D Accelerator. Memory: Ram 2,048 GB DDR3L
- Connections: WiFi, Bluetooth 4.0, Micro USB-B, Micro SD card reader, Micro HDMI, Microphone, Headphone

Delivery information: Supplied with VisiCam® professional imaging software, USB cable (0,5 m), keyboard with touchpad and touch pen and cleaning cloth.

Description	Pk	Cat. No.
Tablet PC with C-mount integrated camera, VisiCam®, TC 100	1	630-2174

PACKAGING

Transparent paper packaging	238
Accessories	239





Heat-seal sterilisation bags



Heat-seal sterilisation bags with one paper side (60 g/m²) and one transparent, pre-assembled PET/PP plastic side.

- Dual sterilisation displays for autoclave and ethylene oxide
- Welded joint
- Available in different sizes

LxW (mm)	Pk	Cat. No.
100x250	100	300-0233
300x150	100	129-1404
300x200	100	129-1427
400x200	500	129-1438
400x250	100	129-1407
500x320	100	129-1431
400x600	100	300-0234

Tubing for sterilisation



Tubular bag film is available as a flat or folding bag in various sizes. Helpful tips for use are printed on the film. Suitable for autoclaving and ethylene oxide sterilisation.

Description	LxW (mm)	Pk	Cat. No.
Tubular bag film, flat			
Tubular bag film, flat	200 m x 50	200 m	129-1435
Tubular bag film, flat	200 m x 75	200 m	129-1422
Tubular bag film, flat	200 m x 100	200 m	129-1423
Tubular bag film, flat	200 m x 150	200 m	129-1425
Tubular bag film, flat	200 m x 200	200 m	129-1426
Tubular bag film, flat	200 m x 300	200 m	129-1411
Tubular bag film, flat	200 m x 400	200 m	129-1412
Tubular bag film, with gusset			
Tubular bag film with gusset	40x75	100 m	129-1437
Tubular bag film with gusset	50x100	100 m	129-1434
Tubular bag film with gusset	50x200	100 m	129-0485
Tubular bag film with gusset	50x300	100 m	129-1430
Tubular bag film with gusset	80x400	100 m	129-1086



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Bag cutters
Micronova



- Automatically retractable safety blade guard
- No blade changes required - eliminates all loose blades
- Ergonomic handle
- Gamma irradiated

Type	Pk	Cat. No.
Bag cutter	20	233-0166
Irradiated bag cutter with automatically retractable safety blade guard, sterile	50	811-0165



Bag closures, WeLoc® Gripper / WeLoc® Gripper FD



PA/glass fibre or detectable PA, white or blue

The WeLoc® Gripper is the most powerful WeLoc® closure. It is manufactured from DuPont® Polyamide, reinforced with glass fibre which further enhances its strength and durability. The Gripper is designed to cope with the toughest environments and is therefore excellent for many industrial applications, where a stronger seal is often required.

The WeLoc® Gripper FD is a powerful sack closure made from DuPont® Polyamide 6.6. It is fully metal and X-ray detectable and therefore ideal for use in the food and pharmaceutical industry.

- Re-closing of partly used bags of ingredients will reduce the risk of cross contamination
- Reduce the risk of leakage or accidents
- Made from strong and durable material
- Manufactured in Sweden under strict hygiene conditions
- Clips can be sterilised via autoclave, EtO or gamma irradiation before being re-used

Description	Length (mm)	Colour	Pk	Cat. No.
WeLoc® Gripper	245	White	10	312-0112
WeLoc® Gripper	245	Blue	10	312-0113
WeLoc® Gripper FD, detectable	245	Dark Blue	10	312-0114



Bag closures, WeLoc®



PA, white or blue

These sealing clips are perfect for use in the demanding pharmaceutical and laboratory environment because they are made from high quality Polyamide 6.6 material from DuPont®. The clips help to maintain hygiene standards, securing opened bags of raw ingredients and materials, such as powders and fluids.

- Re-closing of partly used bags of ingredients will reduce the risk of cross contamination
- Reduce the risk of leakage or accidents
- Made from strong and durable material
- Manufactured in Sweden under strict hygiene conditions
- Clips can be sterilised via autoclave, EtO or gamma irradiation before being re-used

Length (mm)	Colour	Pk	Cat. No.
70	White	20	312-0104
70	Blue	20	312-0105
90	White	20	312-0106
90	Blue	20	312-0107
130	White	10	312-0108
178	White	10	312-0109
260	White	10	312-0110
362	White	10	312-0111



Complex problems require sophisticated solutions

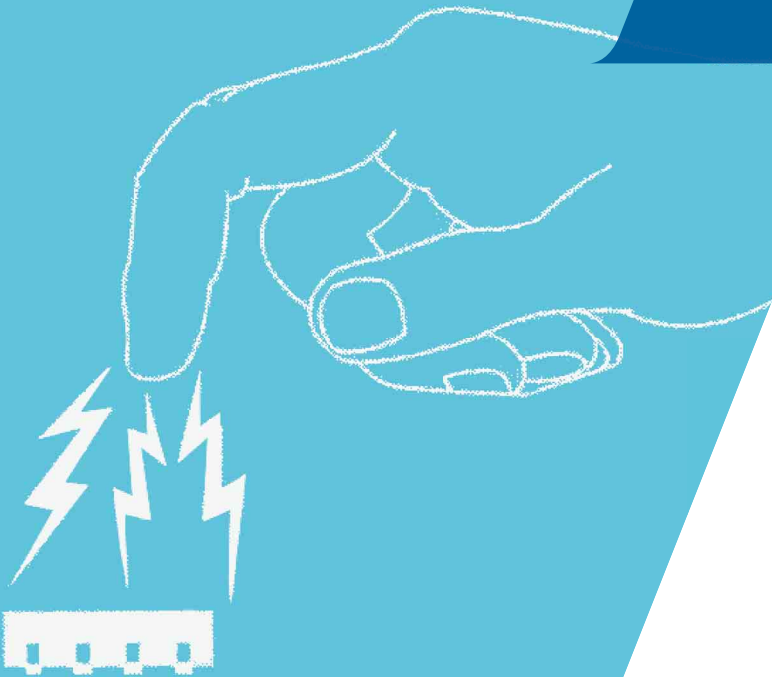
For over 160 years, our customers have been challenged with finding the answers that help improve lives. Our mission is to identify product and service solutions, while eliminating process complexities to help labs and production facilities to work better and faster.

Through our global reach and knowledgeable teams, we proudly excel in delivering solutions that improve productivity, accelerate discovery and encourage innovation.

At VWR, we are focussed on your success because... **together, We Enable Science**

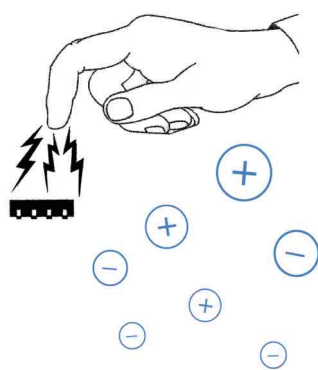


IONISATION



Ionisation..... 242

Ionisation



Ionisation neutralises electrostatic charges, which occur through the friction or separation of two materials. In this process an exchange of electrons takes place, this means that in one material electron surplus prevails (negative charge) and in the other there is a lack of electrons (positive charge).

For human beings electrostatic charges as well as discharges are generally harmless. However, in microelectronics and chip manufacturing, charging or discharging can affect product quality.

Particularly in the field of microelectronics electrostatic discharge (ESD) can cause defects in semiconductors and circuit boards with serious consequences for functionality, for instance in computers, telephones or medical devices. Furthermore, it can cause disturbances in the course of production as contaminating particles are attracted by electrostatically charged surfaces (ESA).

In addition to other protective measures, such as conductive surfaces, devices and clothing, ionising is the solution for these types of problems. Various devices are used according to the area or product being ionised:

Overhead ionisers

For neutralisation of static charge decay over an entire work surface. Have blowers of two or three fans with speed control and integrated heating element for operator comfort. The components and materials used are silicone-free

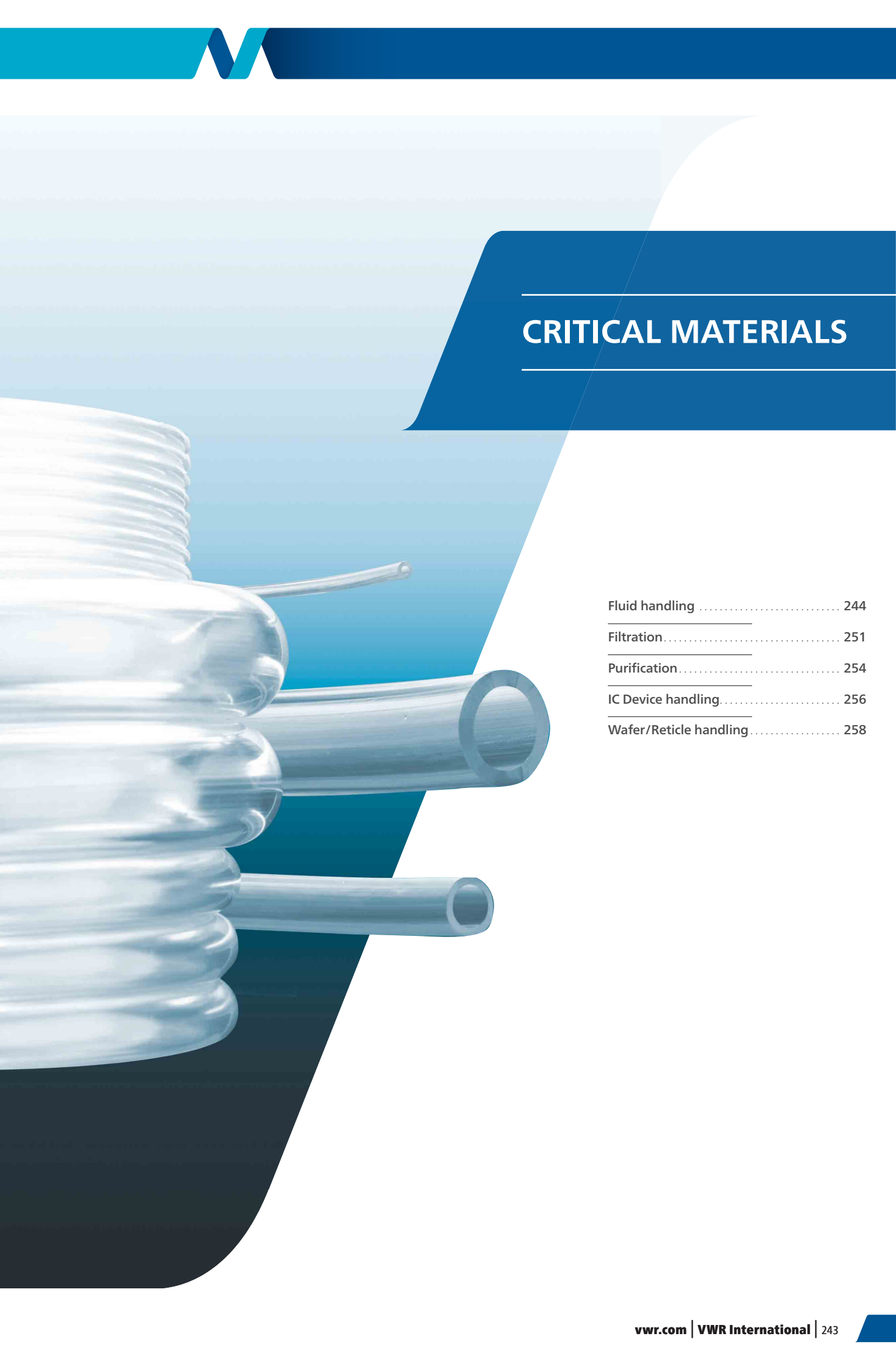
and suitable for cleanrooms.

Benchtop ionisers

Portable enough for field service applications due to their compact design. Ionising blower to control electrostatic charges with a self-balancing control circuit technology. Modular wiring system for power delivery of up to 3 units from one standard power supply.

Ionising air guns

Neutralisation of static charge decay for cleaning processes and effective removal of particle contamination due to a strong blow-off force. Ionising air guns are lightweight with ergonomic design and flexible air hose for operator comfort.



CRITICAL MATERIALS

Fluid handling	244
Filtration	251
Purification	254
IC Device handling	256
Wafer/Reticle handling	258



Tubing, silicone, HelixMark™, for peristaltic pumps
Helix Medical



Silicone, translucent, platinum cured

Tubing manufactured with Wacker Silicones HM-6540 material. Tubing has been subjected to a special stabilisation process providing superior strength, performance and longer life. Its strength and durability is comparable to that of peroxide-cured tubing. Proven long wear and volumetric consistency over 8, 12 and 24 hours process runs.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user’s validation cycles and exposure levels
- Manufactured in accordance with GMP in an FDA-registered production facility for medical products
- Satisfies the biocompatibility requirements of USP Class VI. Certified according to ISO 13485 quality standards.

Hardness (Shore durometer A): 59

Delivery information: Tubes are double bagged in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
0,51	3,71	1,60	7,5 m	228-1117
0,79	3,99	1,60	7,5 m	228-1123
0,99	1,60	0,31	7,5 m	228-1128
1,50	2,52	0,51	7,5 m	228-1131
1,60	4,80	1,60	7,5 m	228-1133
1,60	6,38	2,39	7,5 m	228-1134
2,01	3,02	0,51	7,5 m	228-1135
2,52	3,53	0,51	7,5 m	228-1136
3,00	4,01	0,51	7,5 m	228-1137
3,18	6,38	1,60	7,5 m	228-1138
3,18	7,95	2,39	7,5 m	228-1139
3,20	6,40	1,60	7,5 m	228-1390
4,01	5,44	0,71	7,5 m	228-1140
4,78	7,98	1,60	7,5 m	228-0688
4,78	7,98	1,60	100 m	228-1363
4,78	9,55	2,39	7,5 m	228-0666
4,78	9,86	2,54	7,5 m	228-1111
4,78	11,13	3,18	7,5 m	228-0667
4,80	8,80	2,00	7,62 m	228-1166
6,35	9,55	1,60	7,5 m	228-1112
6,35	9,55	1,60	100 m	228-1381
6,35	11,13	2,39	7,5 m	228-1113
6,35	11,43	2,54	7,5 m	228-1114
6,35	12,70	3,18	7,5 m	228-1115
6,35	13,21	3,43	7,5 m	228-1116
7,95	11,15	1,60	7,5 m	228-1118
7,95	12,73	2,39	7,5 m	228-0668
7,95	15,98	4,01	7,5 m	228-1119
9,53	14,30	2,39	7,5 m	228-1120
9,53	15,88	3,18	7,5 m	228-1121
9,53	16,38	3,43	7,5 m	228-0689
9,53	19,03	4,75	7,5 m	228-1122
12,01	20,03	4,01	7,5 m	228-1124
12,70	19,05	3,18	7,5 m	228-1125
12,70	19,56	3,43	7,5 m	228-0653
12,70	22,20	4,75	7,5 m	228-1126
15,88	22,23	3,18	7,5 m	228-1127
15,88	25,38	4,75	7,5 m	228-0669
16,00	24,03	4,01	7,5 m	228-1129
19,05	28,55	4,75	7,5 m	228-1130
25,40	34,90	4,75	7,5 m	228-1132
25,40	35,56	5,08	7,5 m	228-0690



Tubing, Silicone, Platinum cured, ELASTOSIL, HelixMark™
Helix Medical



Silicone, platinum cured, transparent

Made from WACKER silicone rubber ELASTOSIL® R plus 4305.

- High transparency
- Very good tear resistance

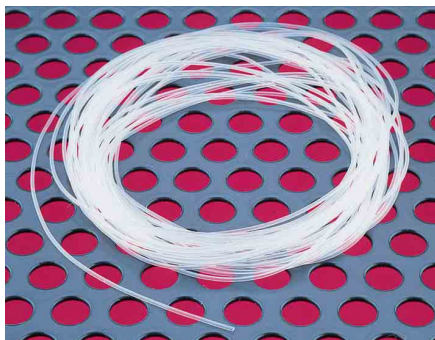
Hardness (Shore durometer A): 80

Density: 1.19

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
6,00	9,00	1,50	15 m	228-0851
10,00	14,00	2,00	15 m	228-0852
19,00	25,00	3,00	15 m	228-0853
6,35	13,21	3,43	15 m	228-1162
9,53	16,65	3,56	15 m	228-0854
15,88	24,52	4,32	15 m	228-1163
19,05	27,95	4,45	15 m	228-1164



Tubing, silicone, HelixMark™
Helix Medical



Silicone, translucent, platinum cured, with standard tolerances

Tubing made from platinum cured Silastic® Q7-4750 material by Dow Corning, and satisfying requirements for biomedical/pharmaceutical use. The special manufacturing process ensures superior flow properties. The tubing is ideal for transfer operations, as well as other applications requiring non leachable material. Can be used at elevated temperatures, whilst resisting sticking or encrustation.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user's validated cycles and exposure levels
- Produced in accordance with GMP in an FDA-registered production facility for medical products
- Meets the biocompatibility requirements of USP Class VI and Eur. Ph. 3.1.9 and certified in accordance with ISO 10993-1 quality standards

Hardness (Shore durometer A): 50

Delivery information: Tubing is double bagged in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
0,31	0,64	0,15	15 m	228-0654
0,51	0,94	0,20	15 m	228-0670
0,64	1,19	0,28	15 m	228-1065
0,76	1,65	0,46	15 m	228-0655
1,02	2,16	0,58	15 m	228-0656
1,47	1,96	0,23	15 m	228-0657
1,58	2,41	0,41	15 m	228-0658
1,58	3,18	0,81	15 m	228-1066
1,98	3,18	0,61	15 m	228-1067
2,64	4,88	1,12	15 m	228-1068
3,35	4,65	0,66	15 m	228-1069
3,18	6,35	1,59	15 m	228-1070
4,76	7,94	1,59	15 m	228-1071
4,76	9,53	2,38	15 m	228-0659
6,35	9,53	1,59	15 m	228-1072
6,35	11,11	2,38	15 m	228-1073
6,35	12,70	3,18	15 m	228-1074
7,94	12,70	2,38	15 m	228-1075
9,53	12,70	1,59	15 m	228-1076
9,53	14,29	2,38	15 m	228-1077
9,53	15,88	3,18	15 m	228-0660
12,70	17,46	2,38	15 m	228-1078
12,70	19,05	3,18	15 m	228-1079
15,88	22,23	3,18	15 m	228-1080
15,88	23,82	3,97	15 m	228-1081



Tubing, silicone, HelixMark™
Helix Medical



Silicone, translucent, platinum cured

Biomedical/pharmaceutical grade tubing, manufactured by Wacker Silicones from HM-6540 platinum cured material. The special manufacturing process minimises flow degradation over extended periods.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user’s validation cycles and exposure levels
- Manufactured according to GMP in an FDA-registered production facility for medical products
- Compliant with the biocompatibility requirements of USP, Class VI

Hardness (Shore durometer A): 54

Density: 1.15

Delivery information: Tubing is double shrink-wrapped in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
0,31	0,64	0,15	15 m	228-0661
0,64	1,19	0,28	15 m	228-1152
0,76	1,65	0,46	15 m	228-1091
1,02	2,16	0,57	15 m	228-1153
1,58	2,41	0,41	15 m	228-1382
1,58	3,18	0,81	15 m	228-1383
1,98	3,18	0,61	1	228-1154
2,64	4,88	1,12	15 m	228-1092
3,35	4,65	0,66	15 m	228-1093
3,18	6,35	0,63	1	228-1155
3,18	6,35	1,59	15 m	228-1094
4,76	7,94	1,59	15 m	228-1095
4,76	9,53	2,38	15 m	228-1096
6,35	9,53	1,59	15 m	228-1097
6,35	11,11	2,38	15 m	228-1098
6,35	12,70	3,18	15 m	228-1099
7,94	12,70	2,38	15 m	228-0662
9,53	12,70	1,59	15 m	228-0663
9,53	14,29	2,38	15 m	228-1100
9,53	15,88	3,18	15 m	228-1101
12,70	17,45	2,38	150 cm	228-1384
12,70	17,46	2,38	1 m	228-1385
12,70	19,05	3,18	15 m	228-0664
15,88	22,23	3,18	15 m	228-1104
19,05	25,40	3,18	15 m	228-0845

Tubing, silicone, HelixMark™
Helix Medical



Silicone, translucent, platinum-cured

Biomedical/pharmaceutical grade tubing, manufactured by Nusil platinum-cured material. The special manufacturing process minimises flow degradation over extended periods.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user’s validation cycles and exposure levels
- Manufactured according to GMP in an FDA-registered production facility for medical products
- Compliant with the biocompatibility requirements of USP, Class VI

Hardness (Shore durometer A): 50

Density: 1.14

Delivery information: Tubing is double shrink-wrapped in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
1,80	9,00	3,60	15 m	228-0850
3,18	6,35	1,59	7,5 m	228-1156
4,76	7,94	1,59	15 m	228-0849
9,53	15,88	3,18	7,5 m	228-1157



Tubing, silicone, HelixMark™, close tolerance
Helix Medical



Silicone, translucent, platinum cured, for applications with very close tolerances

Tubing made from platinum cured Silastic® Q7-4750 material by Dow Corning, and satisfying requirements for biomedical/pharmaceutical use. The special manufacturing process ensures superior flow properties. The tubing is ideal for transfer operations, as well as other applications requiring non leachable material. Can be used at elevated temperatures, whilst resisting sticking or encrustation.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user's validated cycles and exposure levels
- Produced in accordance with GMP in an FDA-registered production facility for medical products
- Meets the biocompatibility requirements of USP Class VI and Eur. Ph. 3.1.9 and certified in accordance with ISO 10993-1 quality standards

Hardness (Shore durometer A): 50

Delivery information: Tubing is double bagged in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
3,18	6,35	1,59	15 m	228-1082
4,76	7,94	1,59	15 m	228-1083
6,35	9,53	1,59	15 m	228-1084
6,35	11,13	2,38	15 m	228-1085
9,53	14,29	2,38	15 m	228-1086
9,53	15,88	3,18	15 m	228-1087
12,70	17,46	2,38	15 m	228-1088
12,70	19,05	3,18	15 m	228-1089
15,88	22,23	3,18	15 m	228-1090



Tubing, silicone, braided, HelixMark™
Helix Medical



Silicone, translucent, platinum cured

Durable, reinforced tubes with pressure resistant polyester fabric insert between extrusions of platinum cured silicone. Ideal for use under high pressure and/or at high temperatures.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user's validation cycles and exposure levels
- Manufactured in accordance with GMP in an FDA-registered production facility for medical products
- Meets the biocompatibility requirements of USP Class VI and Eur. Ph. 3.1.9 and certified in accordance with ISO 10993-1 quality standards

Hardness (Shore durometer A): 65

Delivery information: Tubes are double bagged and packed in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
3,18	9,28	3,05	7,5 m	228-1106
4,76	11,36	3,30	7,5 m	228-1107
6,35	13,21	3,43	7,5 m	228-1108
7,93	15,03	3,55	7,5 m	228-1109
9,53	16,63	3,55	7,5 m	228-0846
12,70	20,32	3,81	150 cm	228-1387
12,70	20,32	3,81	1 m	228-1386
12,70	20,32	3,81	7,5 m	228-0665
15,88	24,52	4,32	7,5 m	228-0847
19,05	27,95	4,45	7,5 m	228-0848
22,23	31,37	4,57	7,5 m	228-1110
25,40	34,54	4,57	7,5 m	228-1105

Tubing, silicone, PharmaFocus™
Helix Medical



Tubing, silicone, platinum cured

The platinum-cured silicone elastomer used for the PharmaFocus tubing has been designed specifically to fit the needs of the pharmaceutical industry. This silicone undergoes a battery of biocompatibility tests appropriate for pharmaceutical applications, eliminating the costly extended implant studies typically performed on biomedical-grade silicones.

- More cost-effective silicone tubing that delivers consistent quality and the highest level of assurance
- Compliant with the requirements of USP, Class VI
- FDA 21CFR 177-2600/ISO 10093-1/EP 3.1.9

Hardness (Shore durometer A): 50

Delivery information: Packaged double bagged in boxes, material certification and lot traceability documents included in every box.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
3,18	6,35	1,59	15 m	228-1168
4,76	7,94	1,59	15 m	228-1169
4,76	9,53	2,38	15 m	228-1170
6,35	11,11	2,38	15 m	228-1171
6,35	12,70	3,18	15 m	228-1172
7,94	12,70	2,38	15 m	228-1173
9,53	15,88	3,18	15 m	228-1174
12,70	19,05	3,18	15 m	228-1175
15,88	22,23	3,18	15 m	228-1176
19,05	25,40	3,18	15 m	228-1177
25,40	38,10	6,35	15 m	228-1178

Tubing, silicone, HelixMark™
Helix Medical



Silicone, translucent, platinum-cured

Biomedical/pharmaceutical grade tubing, manufactured by Momenive HM-2540 platinum-cured material. The special manufacturing process minimises flow degradation over extended periods.

- Can be sterilised by autoclaving or ethylene oxide as well as by gamma radiation within the user's validation cycles and exposure levels
- Manufactured according to GMP in an FDA-registered production facility for medical products
- Compliant with the biocompatibility requirements of USP, Class VI

Hardness (Shore durometer A): 52

Density: 1.15

Delivery information: Tubing is double shrink-wrapped in crush resistant boxes. Material certification and lot traceability are included.

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
0,64	1,19	0,28	15 m	228-1434
7,94	12,70	2,38	15 m	228-1159
9,53	15,88	3,18	15 m	228-1160
15,88	22,23	3,18	15 m	228-1161



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Stoppers, silicone, conical, HelixMark™
Helix Medical



Silicone, platinum cured, translucent

Pharmaceutical grade. Manufactured without peroxide catalysts. For a tight, reliable seal for glass tubes, vials and flasks.

- Manufactured according to GMP in a production facility registered by the FDA for the manufacture of medical products
- Meets USP Class VI biocompatibility requirements
- Material certification and lot traceability are included in each pack

ISO 13485

Size	Height (mm)	Ø bottom (mm)	Ø top (mm)	Pk	Cat. No.
000	25,0	8,0	13,0	12	217-0667
00	25,0	10,0	15,0	12	217-0666
0	25,0	13,0	20,0	12	217-0655
1	25,0	14,0	19,0	12	217-0656
2	25,0	16,0	20,0	12	217-0657
3	25,0	18,0	24,0	12	217-0658
4	25,0	20,0	26,0	12	217-0659
5	25,0	23,0	27,0	12	217-0654
6	25,0	26,0	32,0	12	217-0660
7	25,0	30,0	37,0	12	217-0661
8	25,0	33,0	41,0	12	217-0662
9	25,0	37,0	45,0	12	217-0663
10	25,0	42,0	50,0	12	217-0664
12	25,0	54,0	64,0	12	217-0665



Clamp gaskets, HelixMark™
Helix Medical



Silicone, platinum-cured

These biomedical / pharmaceutical grade clamp gaskets promote crevice-free and protrusion-free processing. Contain no contaminants or leachables.

- Manufactured according to GMP in a production facility registered by the FDA for the manufacture of medical products
- Can be sterilised by autoclaving, by ethylene oxide and via gamma radiation within the user's validation cycles and sterilisation levels
- Meet USP Class VI requirements. Material certification and lot traceability are included in each box

ISO 13485

Ø int. (mm)	Type	Pk	Cat. No.
12,70	Mini	25	113-0316
19,05	Mini	25	113-0317
25,40	Standard	25	113-0318
38,10	Standard	25	113-0319
50,80	Standard	25	113-0320
63,50	Standard	25	113-0321
76,20	Standard	25	113-0322
101,60	Standard	25	113-0323
152,40	Standard	25	113-0324

Flow meters, electronic, NT® model 4400
Entegris



The NT® flow meter calculates fluid flow from the differential pressure measured by two sensors operated by a Venturi style integral orifice. The NT® is ideal for capturing critical diagnostic information for monitoring or controlling process applications such as chemical, DI water and slurry dispense, precision blending and metering and totalised flow for custody transfer.

- Provides simultaneous measurement of outlet pressure and flow rate
- No moving parts reduce particle generation potential
- The flow-through design minimises dead volume, reducing contamination potential
- PTFE, PFA, CTFE, and Kalrez® wetted surfaces for high purity applications
- Industry standard Flaretek® flared port connections reduce entrapment areas, minimise footprint, provide system design flexibility and simplify installation
- Performance is calibrated for an accuracy of 1% of full scale.

Model	Description	Flow rate (l/min)	Connector	Pk	Cat. No.
20:1 Turndown					
4400-E1-F04-A00-A-P1-S1	CTFE sensor interface	0 - 250	1/2 inch Flaretek tube fitting and Kalrez seals	1	649-0005
4400-E1-F04-A00-A-P5-S1	CTFE sensor interface (HF compatible)	0 - 250	1/2 inch Flaretek tube fitting and Kalrez seals	1	649-0006

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Cartridge and disposable filters, QuickChange®
Entegris



Membrane: pre-wet, non dewetting PTFE; Supports: PFA; Cartridge O-rings: TEV® or Chemraz®; Shell (for disposable filters): PFA

These filters are designed for use in aqueous based chemical systems where the risk of particle contamination cannot be tolerated. The QuickChange® technology is proven to retain its non dewetting properties in outgassing chemistries and when chemical baths are drained and purged. The filters are available in disposable design which eliminates handling of the filter element and decreases the possibility of contamination, making them ideal for critical applications that require highest purity liquids.

- Packaged in ultra pure DI water
- Recommended for ambient temperature chemicals and elevated temperature applications

Maximum operating temperature: 180 °C

Maximum forward differential pressure: 4,4 bar at 25 °C; 0,52 bar at 180 °C

Maximum reverse differential pressure: 3,45 bar at 25 °C

Type	Pore size (µm)	Filtration area (cm²)	Pk	Cat. No.
AT cartridge filter with Chemraz® O-ring and Chemlock® key, ØxL: 70x254 mm	0,1	9000	1	514-0743
ATX cartridge filter with TEV® O-ring, ØxL: 83x102 mm	0,1	13000	1	514-0744
ATX cartridge filter with TEV® O-ring, ØxL: 83x254 mm	0,2	13000	1	514-0742
ATM Chem-Line™ II disposable filter, ØxL: 83x254 mm	0,05	18000	1	514-0745

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Cartridge filters, Optimizer® PR 16 and PR 40
Entegris

Membrane: UPE; Support, cage, core and endcaps: HDPE

The UPE membrane of these filters eliminates pre-wetting, which optimises the full use of the membrane and ensures maximum flow.

- Manufactured, tested, and packaged in a world-class, ISO 9001 Quality Systems Standard facility
- Removes soft gel particles
- Provides superior downstream cleanliness, low surfactant binding and spontaneous wettability

Maximum operating temperature: 60 °C

Maximum forward differential pressure: 3,4 bar at 25 °C

Maximum reverse differential pressure: 2,7 bar at 25 °C

Type	Pore size (µm)	Filtration area (cm²)	Pk	Cat. No.
PR 16 cartridge filter with Kalrez® O-ring, ØxL: 67x52 mm	0,05	1500	1	514-0739
PR 16 cartridge filter with EPDM O-ring, ØxL: 67x52 mm	0,2	1500	1	514-0737
PR 40 cartridge filter with Kalrez® O-ring, ØxL: 67x113 mm	0,2	3500	1	514-0738

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Cartridge filters, ProcessGard® PP
Entegris



Membrane, supports, core and sleeves: PP

These cartridge filters are suited for acids, bases, process water, solvents, dyes and lacquers in flat panel display and chemical manufacturing.

- Broad chemical and thermal compatibility
- For applications in wet etching, stripping, developer and cleaning process
- Pre and final filtration for solvents, photoresist and all pigment chemicals

Maximum operating temperature: 80 °C

Maximum forward differential pressure: 4,0 bar at 20 °C

Maximum reverse differential pressure: 2,5 bar at 20 °C

Type	Pore size (µm)	Pk	Cat. No.
PP cartridge filter with EPDM O-ring, ØxL: 70x263 mm	0,3	1	514-0740
PP cartridge filter with EPDM O-ring, ØxL: 70x263 mm	1,0	1	514-0741

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Cartridge filters, Savana® PTFE
Entegris



Membrane: Hydrophobic PTFE; **Support, sleeve, caps and core:** PP

These cartridge filters are constructed of PTFE pleated membranes with PP supports to provide durability and cleanliness for filtration of process fluids used in the electronics industry.

- Excellent chemical compatibility
- Used for air filtration, stripper and IPA or solvent applications in flat panel display or hard disk industries

Maximum operating temperature: 90 °C (for 70 mm Ø cartridge, in water); 80 °C (for 83 mm Ø cartridge, in water)

Maximum forward differential pressure: 4,0 bar at 25 °C

Maximum reverse differential pressure: 3,0 bar at 25 °C

Type	Pore size (µm)	Pk	Cat. No.
PTFE cartridge filter with FKM O-ring, ØxL: 70x263 mm	0,2	1	514-0746
PTFE cartridge filter with FKM O-ring, ØxL: 70x509 mm	0,2	1	514-0747
PTFE-X cartridge filter with E-FKM O-ring, ØxL: 83x244 mm	3	1	514-0748

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Disposable filters, Optimizer® DEV and DI
Entegris



Membrane: Patented surface-modified hydrophilic ultra-high molecular weight polyethylene (UHMWPE); **Supports, core and sleeve:** HDPE; **Disposable shell:** PP

These point-of-use filters meet small to mid-volume photochemical filtration needs for positive developer and DI water applications. Both Optimizer® DEV filters (for developer applications) and Optimizer® DI filters (for DI water applications) require no pre-wetting, so the filters function immediately after installation. The design also limits the handling of hazardous chemicals during the installation and promotes a healthier workplace. Do not use either filter with aromatic hydrocarbons.

- Manufactured, tested, and packaged in a world-class, ISO 9001 Quality Systems Standard facility
- O-ringless connections avoid potential sources of contamination

Maximum operating temperature: 60 °C

Maximum forward differential pressure: 2,8 bar at 25 °C

Maximum reverse differential pressure: 2,8 bar at 25 °C

Type	Pore size (µm)	Filtration area (cm²)	Pk	Cat. No.
DEV disposable filter with 8 mm connections, 4 mm vent/drain Super Type Pillar® fittings, ØxL: 71x127 mm	0,05	1800	1	514-0736
DI disposable filter with 1/4" connections, 1/4" vent/drain compression seal fittings, ØxL: 71x97 mm	0,05	1800	1	514-0734
DI disposable filter with 8 mm connections, 4 mm vent/drain Super Type Pillar® fittings, ØxL: 71x127 mm	0,05	1800	1	514-0735

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Inline PTFE gas filters, Wafergard® MAX
Entegris



Filter element: Hydrophobic PTFE membrane supported by moulded PTFE PFA structure; **Housing:** Electropolished low sulfur 316L stainless steel

These filters are compatible with high purity gases as well as general nitrogen and CDA applications. Available in Bronze and Silver performance levels, they are specifically designed for high flow and low delta pressure applications and provide ultimate process protection by removing contaminants that could affect process quality.

- Superior particulate filtration for ultra pure gas system filtration
- Pre-conditioned for fast start-up (Silver only)
- Select ultra high purity (Silver) or high purity (Bronze) surface finish

Applications: Facility hook-up, valve manifold boxes, point-of-use gas panel applications.

Downstream cleanliness particles: Less than 0,03 particles/litre (<1 particle/0,028 m³) greater than 0,01 µm

Downstream cleanliness volatiles (Silver): <10 ppb H₂O and O₂. Below LDL THC (lower detection limit is 5 ppb)

Continued from previous page

Model	Material	Max. differential pressure (bar)	Max. operating pressure (bar)	Leak rating	Max. operating temperature (°C)	Fitting size	Inlet/outlet	ØxL (mm)
Bronze								
Bronze	PTFE	Vorwärts: 7 Rückwärts: 2,5	60	Qualified: 2 x 10 ⁻¹⁰ atm-cc/sec Tested: 1 x 10 ⁻⁹ atm-cc/sec	120	1/4" gasket seal	Male/male	35x127
						1/2" gasket seal		
						1/4" compression seal		35x113
						3/8" compression seal		35x118
						1/2" compression seal		35x119
						1/4" gasket seal	Male/female	35x141
Silver								
Silver	PTFE	Vorwärts: 7 Rückwärts: 2,5	70	Qualified: 2 x 10 ⁻¹⁰ atm-cc/sec Tested: 1 x 10 ⁻⁹ atm-cc/sec	120	1/4" gasket seal	Male/male	35x127
						1/2" gasket seal		
						1/4" butt weld tube	-	35x133
						3/8" butt weld tube		
						1/2" butt weld tube		
Bronze Plus								
Bronze Plus	PTFE	Vorwärts: 7 Rückwärts: 2,5	70	Qualified: 2 x 10 ⁻¹⁰ atm-cc/sec Tested: 1 x 10 ⁻⁹ atm-cc/sec	120	1/4" gasket seal	Male/male	35x127
			60			1/2" gasket seal 3/8" compression seal		35x118

Description	Model	Pk	Cat. No.
Bronze			
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0871
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0872
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0873
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0874
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0875
Inline PTFE gas filter, Wafergard® MAX	Bronze	1	568-0870
Silver			
Inline PTFE gas filter, Wafergard® MAX	Silver	1	568-0882
Inline PTFE gas filter, Wafergard® MAX	Silver	1	568-0883
Inline PTFE gas filter, Wafergard® MAX	Silver	1	568-0879
Inline PTFE gas filter, Wafergard® MAX	Silver	1	568-0880
Inline PTFE gas filter, Wafergard® MAX	Silver	1	568-0881
Bronze Plus			
Inline PTFE gas filter, Wafergard® MAX	Bronze Plus	1	568-0876
Inline PTFE gas filter, Wafergard® MAX	Bronze Plus	1	568-0877
Inline PTFE gas filter, Wafergard® MAX	Bronze Plus	1	568-0878

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Gas purifiers, GateKeeper® Hydrogen
Entegris



These purifiers are designed for use with H₂ and H₂/inert gas mixtures. They remove O₂, CO, CO₂ and H₂O to sub-ppb levels.

- Guards against bulk gas purifier breakthrough, impurity spikes from liquid storage tanks, cylinder changeouts and unexpected contaminants in the process
- Does not release hydrocarbons that may contaminate the process
- Uses ambient temperature purification technology – no power or heat required
- No moving parts

CE certified to the Pressure Equipment Directive (PED) and manufactured in an ISO 9001:2000 facility.

Maximum inlet challenge of contaminant to maintain product efficiency: 10 ppm (parts-per-million)

Lifetime: One year at nominal flow rate with 1 ppm inlet challenge of H₂O

Model	30KF	35KF	70KF	75KF	100KF	300KF	500KF	500KFHP	700KF	2500KF	2500KH	10MH
Material	Stainless steel, electrolytically polished											
Gases purified	H ₂ , H ₂ /inert gas mixtures											
Outlet purity	<1 ppb O ₂ , CO, CO ₂ , H ₂ O											
Outlet particle filtration	0,003 µm 316L stainless steel				0,003 µm nickel	0,003 µm 316L stainless steel						
Media	Nickel metallic/metal oxide											
Max. differential pressure (bar)	13,79											
Min. operating pressure (bar)	1,01											
Max. operating pressure (bar)	200				69	48		200	48	17		
Leak rating	1 × 10 ⁻⁹ atm cc/sec											
Max. operating temperature (°C)	65											
Max. flow rate	1 (SLPM)		3 (SLPM)	5 (SLPM)	20 (SLPM)	50 (SLPM)	60 (SLPM)		120 (SLPM)	300 (SLPM)		500 (SLPM) 1000 (SLPM)
Nominal flow rate	0,5 (SLPM)	0,75 (SLPM)	2 (SLPM)		3 (SLPM)		18 (SLPM)		26 (SLPM)	91 (SLPM)		320 (SLPM)
Fitting size	1/4" face seal										1/2" face seal	
Fitting offset	97 mm	Centred		97 mm	112 mm	Centred						
Inlet/outlet	Male/male											Female/ male
Filter	0,003 µm										0,003 µm (low pressure drop)	
ØxL (mm)	38x84		38x114	38x127	152x84	51x208	76x202	76x254		102x439		102x447 152x974
Weight (kg)	0,3		0,4		0,5	1,8	1,6	2,5	1,6	9,5		27

Description	Model	Pk	Cat. No.
Gas purifier, GateKeeper® Hydrogen	30KF	1	568-0856
Gas purifier, GateKeeper® Hydrogen	35KF	1	568-0858
Gas purifier, GateKeeper® Hydrogen, with isolation valves	35KF	1	568-0843
Gas purifier, GateKeeper® Hydrogen	70KF	1	568-0866
Gas purifier, GateKeeper® Hydrogen	75KF	1	568-0868
Gas purifier, GateKeeper® Hydrogen	100KF	1	568-0844
Gas purifier, GateKeeper® Hydrogen	300KF	1	568-0854
Gas purifier, GateKeeper® Hydrogen	500KF	1	568-0860
Gas purifier, GateKeeper® Hydrogen	500KFHP	1	568-0861
Gas purifier, GateKeeper® Hydrogen	700KF	1	568-0864
Gas purifier, GateKeeper® Hydrogen	2500KF	1	568-0848
Gas purifier, GateKeeper® Hydrogen, with isolation valves	2500KF	1	568-0841
Gas purifier, GateKeeper® Hydrogen	2500KH	1	568-0850
Gas purifier, GateKeeper® Hydrogen	2500KH	1	568-0851
Gas purifier, GateKeeper® Hydrogen	10MH	1	568-0846

Articles may not be available in all countries. Please contact your local VWR office.

Gas purifiers, GateKeeper® Inert
Entegris



These purifiers are designed for use with N₂, He, Ne, Kr, Xe, Ar, halocarbons and light hydrocarbons. They remove O₂, H₂, CO, CO₂ and H₂O to sub-ppb (part-per-billion) levels; SO₂ to sub-ppt (part-per-trillion) levels.

- Guards against bulk gas purifier breakthrough, impurity spikes from liquid storage tanks, cylinder changeouts and unexpected contaminants in the process
- Does not release hydrocarbons that may contaminate the process
- Uses ambient temperature purification technology – no power or heat required
- No moving parts

CE certified to the Pressure Equipment Directive (PED) and manufactured in an ISO 9001:2000 facility.

Maximum inlet challenge of contaminant to maintain product efficiency: 10 ppm (parts-per-million)

Lifetime: One year at nominal flow rate with 1 ppm inlet challenge of moisture

Model	30KF	35KF	70KF	75KF	100KF	300KF	500KF	500KFHP	700KF	2500KF	2500KH	10MH
Material	Stainless steel, electrolytically polished											
Gases purified	N ₂ , He, Kr, Ar, Xe, halocarbons, light hydrocarbons											
Outlet purity	<1 ppb H ₂ , CO and CO ₂ ; <100 ppt H ₂ O, O ₂											
Outlet particle filtration	0,003 µm											
Media	Nickel metallic/metal oxide											
Min. operating pressure (bar)	1,01											
Max. operating pressure (bar)	200				69	48	200	48	17			
Leak rating	1 × 10 ⁻⁹ atm cc/sec											
Max. operating temperature (°C)	65											
Max. flow rate	1 (SLPM)	3 (SLPM)	5 (SLPM)	20 (SLPM)	50 (SLPM)	60 (SLPM)	120 (SLPM)	300 (SLPM)			500 (SLPM)	1000 (SLPM)
Nominal flow rate	0,5 (SLPM)	1,4 (SLPM)	1 (SLPM)	2,2 (SLPM)	7 (SLPM)	12 (SLPM)	18 (SLPM)	60 (SLPM)				
Fitting size	1/4" face seal										1/2" face seal	
Fitting offset	97 mm	Centred		97 mm	112 mm	Centred						
Inlet/outlet	Male/male											Female/ male
Filter	0,003 µm										0,003 µm (high pressure drop)	
ØxL (mm)	38x84	38x114	38x127	152x84	51x208	76x202	76x254		102x439			102x447 152x974
Weight (kg)	0,3	0,4		0,5	1,8	1,6	2,5	1,6	9,5			27

Description	Model	Pk	Cat. No.
Gas purifier, GateKeeper® Inert	30KF	1	568-0857
Gas purifier, GateKeeper® Inert	35KF	1	568-0859
Gas purifier, GateKeeper® Inert	70KF	1	568-0867
Gas purifier, GateKeeper® Inert	75KF	1	568-0869
Gas purifier, GateKeeper® Inert	100KF	1	568-0845
Gas purifier, GateKeeper® Inert	300KF	1	568-0855
Gas purifier, GateKeeper® Inert	500KF	1	568-0863
Gas purifier, GateKeeper® Inert	500KFHP	1	568-0862
Gas purifier, GateKeeper® Inert	700KF	1	568-0865
Gas purifier, GateKeeper® Inert	2500KF	1	568-0849
Gas purifier, GateKeeper® Inert, with isolation valves	2500KF	1	568-0842
Gas purifier, GateKeeper® Inert	2500KH	1	568-0852
Gas purifier, GateKeeper® Inert	2500KH	1	568-0853
Gas purifier, GateKeeper® Inert	10MH	1	568-0847

Articles may not be available in all countries. Please contact your local VWR office.

Device handling

Entegris offers a wide selection of products to meet your specific bare die, chip scale and wafer scale package shipping and handling need. Products are designed and manufactured to provide reliable operation and superior device protection while minimizing your shipping and storage costs. Please ask your local VWR sales office for your solution.

Covers for 2" chip trays, H20 series
Entegris



Description	Pk	Cat. No.
Standard covers		
Standard cover, Styrene, amber	100	216-1635
Standard cover, ABS, natural	100	216-1636
Standard cover,PMMA, transparent A/S	100	216-1640
Standard cover, STAT-PRO® 150	100	216-1641
Standard cover, ChipSentry®	100	216-1642
Standard cover, STAT-PRO® 400, tan	100	216-1644
Standard covers with ESD sensitive symbol		
Standard cover, with ESD sensitive symbol, ChipSentry®	100	216-1645
Rib matrix covers		
Rib Matrix cover, STAT-PRO® 150	100	216-1646
Rib Matrix cover, ChipSentry®	100	216-1647
High clearance covers		
High clearance cover, 0,040", STAT-PRO® 150	100	216-1638
High clearance cover, 0,040", ChipSentry®	100	216-1639
High clearance cover, 0,024", ABS, natural	100	216-1637

Articles may not be available in all countries. Please contact your local VWR office.

Clips for 2" chip trays, H20 Series
Entegris



Description	For	Material	Standard	Colour	Pk	Cat. No.
Pair of clips						
Pair of clips	One tray and one cover	PP	yes	Natural	50 PAIR	216-1648
Pair of clips	One tray and one cover	Stat-Pro® 100	yes	—	50 PAIR	216-1649

Articles may not be available in all countries. Please contact your local VWR office.

Covers for 4" chip trays, H44 series
Entegris



Description	Pk	Cat. No.
Standard covers		
Standard cover, Styrene, amber	50	216-1655
Standard cover, Styrene, clear	50	216-1656
Standard cover, ABS, natural	50	216-1657
Standard cover, PMMA, transparent, A/S	50	216-1659
Standard cover, STAT-PRO® 150	50	216-1660
Standard cover, ChipSentry®	50	216-1661
Standard cover, STAT-PRO® 400, tan	50	216-1662
Rib matrix covers		
Rib Matri cover, ChipSentry®	50	216-1663
High clearance covers		
High clearance cover, 0,015", STAT-PRO® 400, tan	50	216-1658

Articles may not be available in all countries. Please contact your local VWR office.

Clips for 4" chip trays, H44 Series
Entegris



Description	For	Material	Standard	Colour	Pk	Cat. No.
Pair of clips						
Pair of clips	One tray and one cover	PP	yes	Natural	50 PAIR	216-1664
Pair of clips	One tray and one cover	Stat-Pro® 100	yes	—	1 PAIR	216-1669
Pair of clips	Two tray	PP	yes	Natural	50 PAIR	216-1665
Pair of clips	Two trays	Stat-Pro® 100	yes	—	50 PAIR	216-1666
Pair of clips, six trays, one cover						
Pair of clips	Six trays and one cover	PP	yes	Natural	25 PAIR	216-1670
Pair of clips	Six trays and one cover	Stat-Pro® 100	yes	—	50 PAIR	216-1671
Storage/transport clips						
Storage/transport clips	Two trays or cover	Stat-Pro® 100	no	—	50	216-1667
Wash tray clips						
Wash tray clips	Two trays	PP	yes	Blue	25	216-1668

Articles may not be available in all countries. Please contact your local VWR office.

Process wafer carriers, 200 mm
Entegris



PFA

These moulded PFA process wafer carriers are designed for wet chemical processing applications.

- Open-flow carrier allows solutions to pass through evenly and quickly
- Constructed of chemical resistant PFA material, so processes remain uncontaminated
- Locating track notches at the centre of the thirteenth pocket
- Pins and holes on the top rail

Colour: Natural

Description	For	Pk	Cat. No.
Process wafer carrier, high profile (200 mm) for 25 wafers, compartment size 6,40 mm	E99, E210, HA200 boxes	4	216-1629

Articles may not be available in all countries. Please contact your local VWR office.

Transport wafer carriers, 150 mm
Entegris



These standard 150 mm wafer carriers feature a high rigidity and dimensional stability.

182 series - Industry standard wafer carrier

- Four-point contact on the "H" bar for improved wafer positioning (only some articles)
- Open sidewall style
- High profile design for maximum wafer protection
- Pins and holes on the top rail

194/196 series - Superior automation performance

- Four-point contact on the "H" bar for improved wafer positioning
- Open sidewall style
- Locating track notches at the centre of the 13th pocket
- "H" bar equipment interface
- Pins and holes on the top rail

Description	For	Material	Pk	Cat. No.
Wafer carriers without "H" bar end flanges				
Transport wafer carrier, 182 series, 150 mm, with flanges	E90, E124, E160, E206, H3150 boxes	Stat-Pro® 3000	4	216-1673
Transport wafer carrier, 182 series, 150 mm, with flanges, no four-point contact	-	Stat-Pro® 100	4	216-1691
Transport wafer carrier, 182 series, 150 mm, blue, with flanges, no four-point contact	E90, E124, E160, E206, H3150 boxes	pp	4	216-1692
Transport wafer carrier, 182 series, 150 mm, with flanges, no four-point contact	E90, E124, E160, E206, H3150 boxes	Stat-Pro® 100	4	216-1693
Wafer carriers with "H" bar end flanges				
Transport wafer carrier, 196 series, 150 mm, with flanges	E90, E124, E160, E206, H3150 boxes	Stat-Pro® 3000	4	216-1630
Transport wafer carrier, 194 series, 150 mm, blue, with flanges	E90, E124, E160, E206, H3150 boxes	pp	4	216-1695
Transport wafer carrier, 194 series, 150 mm, with flanges	E90, E124, E160, E206, H3150 boxes	Stat-Pro® 100	4	216-1696

Articles may not be available in all countries. Please contact your local VWR office.

Wafer carriers, 100 mm
Entegris



These 100 mm wafer carriers are designed for optimum performance in automated operations or for processing LCDs and other small devices.

72 series

- Original linear wafer carrier
- Wash openings
- "H" bar equipment interface
- Pins and holes on top rail
- Both end walls have flanges that extend to the bottom of carrier

182 series

- Open sidewall style with wrap-around wash slots
- Protective side wall design guards against damage from operator contact

190 series

- Optimum performance in centrifugal processing applications
- Low contour, open flow sidewall style
- "H" bar equipment interface
- Pins and holes on top rail

Description	For	Material	Pk	Cat. No.
Wafer carrier, 72 series, 100 mm, with "U" shaped flanges and "H" bar end flanges	-	PFA	4	216-1631
Wafer carrier, 72 series, 100 mm, with "U" shaped flanges and "H" bar end flanges	E97, E88 boxes	PFA	4	216-1632
Wafer carrier, 72 series, 100 mm, with "U" shaped flanges and "H" bar end flanges	E97, E88 boxes	Stat-Pro® 100	4	216-1697
Wafer carrier, 182 series, 100 mm, solid, with flanges	E97, E88 boxes	Stat-Pro® 100	4	216-1674

Articles may not be available in all countries. Please contact your local VWR office.

Wafer carriers, 125 mm
Entegris



These standard 125 mm wafer carriers are designed for optimum performance in automated equipment.

182 series

- Open sidewall style with wrap-around wash slots
- 26th slot for identification tag

194 series

- Open sidewall style
- Locating track notches at the centre of the 13th pocket
- Pins and holes on the top rail

Description	For	Material	Pk	Cat. No.
Wafer carrier, 182 series, 125 mm, blue, solid, with flanges	E89, E93 boxes	PP	4	216-1689
Wafer carrier, 194 series, 125 mm, blue, solid, with flanges and "H" bar end flanges	E89, E93 boxes	PP	4	216-1694

Articles may not be available in all countries. Please contact your local VWR office.

Single wafer shippers for wafer size 76,2 mm (3") or 90 mm
Entegris



Conical pocket holds one wafer face down contacting only the wafer edges.

- Spring retains wafer and minimises particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labelling

Description	Material	Pk	Cat. No.
Wafer size 76,2 mm (3")			
Tray	Natural PP	50	216-1746
Cover	Natural PP	100	216-1747
Spring, low force	Natural PP	100	216-1748
Wafer size 90 mm			
Tray	Natural PP	50	216-1749
Cover	Natural PP	100	216-1754
Spring	Natural PP	100	216-1755

Articles may not be available in all countries. Please contact your local VWR office.

Single wafer shippers
Entegris



Available for 1,0"; 1,5"; 2,0" and 2,5" wafers. Large area on cover provides space for labelling.

- Conical pocket holds one wafer face down contacting only the edge of the wafer
- Spring retains wafer and minimises particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers

Please contact VWR for complete range of products and options.

Description	Material	Colour	Pk	Cat. No.
Wafer size 1"				
Tray, PP, natural	PP	Translucent	100	216-1577
Cover, PP, natural	PP	Translucent	100	216-1578
Spring, LDPE, natural	LDPE	Translucent	100	216-1579
Wafer size 1,5"				
Tray, PP, natural	PP	Translucent	100	216-1580
Cover, PP, natural	PP	Translucent	100	216-1609
Spring, LDPE, natural	LDPE	Translucent	100	216-1581
Wafer size 2"				
Tray, PP, natural	PP	Translucent	100	216-1582
Cover, PP, natural	PP	Translucent	100	216-1583
Spring, LDPE, natural	LDPE	Translucent	100	216-1584
Wafer size 2,5"				
Tray, PP, natural	PP	Translucent	50	216-1585
Cover, PP, natural	PP	Translucent	100	216-1586
Spring, LDPE, natural	LDPE	Translucent	100	216-1587

Articles may not be available in all countries. Please contact your local VWR office.

Single wafer shippers
Entegris



PC shipper with PP cushion

Provides secure wafer protection in a convenient, easy to use package. Designed for wafer device-side down for simple wafer insertion and removal.

- Cleanroom manufactured and packaged
- Clear polycarbonate material allows easy wafer viewing
- Multiple access areas simplify wafer insertion and removal with a vacuum wand or tweezers
- Pin in socket hinges allow the shipper to be opened horizontally, providing stability for wafer handling
- Smooth surfaces allow efficient cleaning and drying

Please contact VWR for complete range of products and options.

Description	Pk	Cat. No.
for 100 mm wafer	25	216-1589
for 150 mm wafer	25	216-1590
for 200 mm wafer	5	216-1591
for 300 mm wafer	5	216-1588

Articles may not be available in all countries. Please contact your local VWR office.

Dipper basket
Entegris



Made of ETFE. Used to clean or etch small pieces. Fits inside 400 ml and larger beakers.
Hook on end of handle
Contains 100 openings
Opening size: 5,6 mm

Description	Pk	Cat. No.
Dipper basket, length 235 mm, diameter 68 mm	2	300-0235

Articles may not be available in all countries. Please contact your local VWR office.

Wafer carrier handles
Entegris



PFA

These wafer handles are designed to slide onto the top flanges of the wafer carrier.

- Slingshot style
- Slides on the top flanges of carrier

For	Pk	Cat. No.
All 72 series	4	216-1633
All 182 series and 194 series	4	216-1634

Articles may not be available in all countries. Please contact your local VWR office.

Wafer inserts, SmartStack®
Entegris



The wafer insert SmartStack® is specifically designed to protect and maintain wafer integrity during transport, storage or shipping. It provides the necessary ionic and outgassing protection.

- Automation-friendly
- Accommodates 1 to 25 wafers
- ESD safe for maximum wafer/device protection
- Low-particle, low-ionic for protection against die bond corrosion and contamination
- Ergonomic, easy to use, one-step open/close design mitigates factory environmental, health and safety (EHS) related issues

WxDxH: 226x226x70 mm

Packaging: Cleanroom-bagged.

Description	Material	Pk	Cat. No.
Single layer non woven white wafer insert, Ø: 200 mm	PE	500	216-1672

Articles may not be available in all countries. Please contact your local VWR office.

- # VWR Safety Catalogue

Make sure your safety officer has got a copy!
Contact your local VWR sales office or vwr.com



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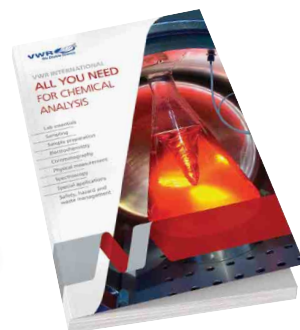
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