
2018
ESSENTIALS
CATALOGUE

Cleanroom Products

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The extensive range of BioClean cleanroom consumables is used in more than 80 countries, supplied through an established global network of dedicated professionals. Time after time, our reputation as a supplier of high quality cleanroom products is demonstrated by our ability to deliver innovative solutions to meet the most exacting requirements of controlled and critical environments.

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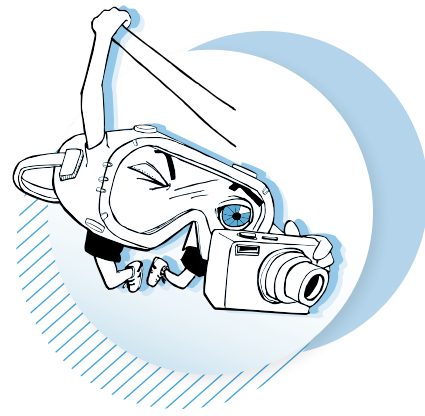
About

BioClean™ - Serving the Cleanroom Industry since 1996

BioClean products are part of world leading manufacturer Ansell Limited's Life Sciences Solutions portfolio. Offering the largest range of gloves under one brand, disposable garments providing head-to-toe protection, a selection of autoclavable or single use goggles, chemo safety wear for critical extra protection, facemasks suitable for all controlled environments and a comprehensive choice of essential accessories.

We're in total control of the entire manufacturing process, adhering to stringent quality systems, meeting rigorous ISO and EN regulations and maintaining continuously high standards. All BioClean products are processed and packed in an ISO Class 4 or 5 cleanroom ensuring our products are pristine to make certain your people, products and processes stay protected.

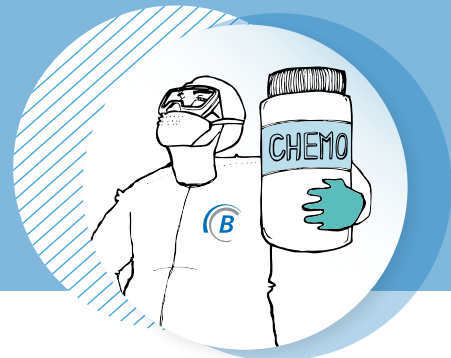
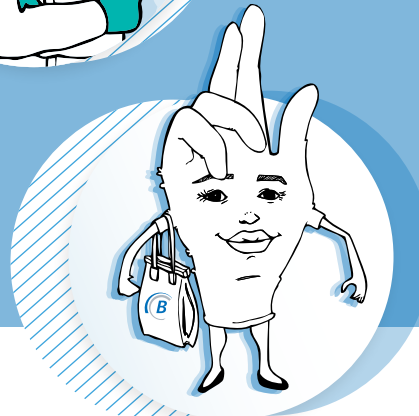
Our Ranges



1

Billy BioClean™ the King of Disposable Garments...

BioClean-D™ garments are specially designed and manufactured from lightweight, low-linting material. They provide an excellent combination of both comfort and protection. The BioClean-D range provides full head-to-toe coverage in various combinations of coveralls, hoods, sleeve covers, lab coats and overboots, and is available in both sterile and non-sterile to suit all controlled environments. This ISO Class 4 Compatible series is one of the most tested on the market today, providing your operators with full head-to-toe coverage... and total peace of mind.



2

Ms. G. Love™ the Mother of all Cleanroom Gloves...

Within the extensive BioClean™ range of cleanroom gloves there is a product ideally suited to your particular needs, be it medical supplies, personal protection or cleanroom. Our vast experience and expertise in life science cleanroom environments ensure that the range of sterile and non-sterile ISO Class 4 & 5 compatible gloves offers extreme comfort, strength and tactility. Not only are they available in a choice of lengths to provide complete protection, they are also manufactured in a wide variety of materials to suit individual preferences and applications. To complement the glove range we now have a range of sterile isolator and Restricted Access Barrier System (RABS) gauntlets and sleeves designed for use in highly controlled environments.

3

Dr. IsoLator™ the Guardian of Cleanroom Chemo Safety Wear...

The BioClean™ Chemo safety wear range includes aprons and gloves, and is available in both sterile and non-sterile. BioClean-C chemotherapy aprons and sleeve covers provide essential protection without compromising comfort. A selection of non-latex gloves and other accessories completes the range. The BioClean chemotherapy range of gloves has been tested against ASTM D6978-05.

4

Lens Gogglestrong™ Clearly Focused on Product Protection...

Gamma or EtO single use? Autoclavable or VHP reusable? Designed with your SOP and operators in mind, disposable and reusable goggles from BioClean's Clearview™ range are manufactured from strong, lightweight and comfortable cleanroom compatible materials in a choice of styles. Both autoclavable and single use goggles have anti-fog systems, optically correct toughened lenses and indirect ventilation systems. They are suitable for those who wear glasses and are 100% latex-free.

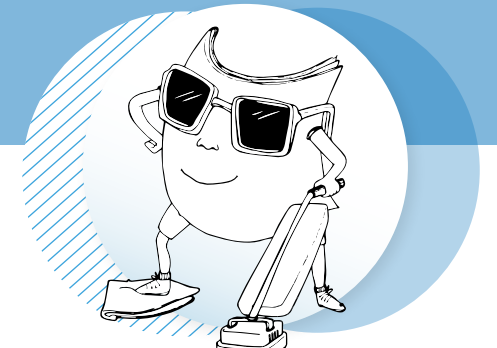
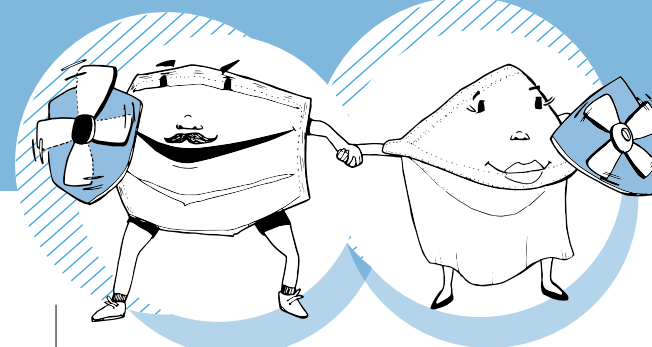
To ensure the highest quality, every pair of BioClean Clearview goggles is individually inspected. They are suitable for cleanroom use and also as safety goggles where personal protection is required.

5

Renée Reusable™ the Diva of Durability...

BioClean reusable garments are manufactured from lightweight, non-linting, monofilament polyester materials, providing an excellent combination of comfort with protection.

The BioClean-R™ range gives full head-to-toe coverage in various combinations of coveralls, hoods, overboots, lab coats, tunics and trousers. Our garments are suitable for use in both sterile and non-sterile cleanroom environments from ISO Class 4 to ISO Class 8, and are compatible with sterilization by gamma irradiation and autoclave methods.



6

Mr. & Mrs. Phil Trayshon™ the Ultra-Clean Face Coverage Team ...

When choosing a cleanroom facemask, we know that finding the balance between performance and comfort is a key consideration. The BioClean range of sterile and non-sterile cleanroom facemasks and veils provides the most comprehensive choice of face coverage when it comes to protecting your 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... we have the facemask you need.

7

Winston Wipe™ the Most Clean-Cut Absorbing Guy...

We are dedicated to manufacturing top quality, low-linting, ISO Class 4 and 5 compatible wipes in a range of sizes and variety of materials that won't break your purchasing department's heart (or budget!). We have both sterile and non-sterile wipe systems to suit your every need.

BioClean™ products are designed for controlled environments where the focus is to eliminate contamination risk and improve our customers' yields.

We produce in our own ISO Class 4 & Class 5 Cleanrooms and hold ISO 9001:2008 certification.

We provide the highest quality products to meet the stringent requirements of the pharmaceutical, life sciences and microelectronics industries.

Cleanroom Consumable Selection Criteria

Selection of your products will depend on a whole host of factors. Some questions which need to be asked are:

- Do I need sterile or non-sterile products?
- What class is my cleanroom?
- How many wearers do I have?
- Do I need reusable or disposable garments?

These are the basic questions that need to be addressed and are of vital importance. Once answered, you can then explore the more granular requirements of compatibility, certification and validation of the products needed to ensure your processes are kept intact.

Our website www.BioClean.com has a comprehensive search facility within each product section enabling you to find the exact product match for your requirements.

Whether it's EN 374 for your gloves, PPE Cat 3 for your garments, ASTM D6978-05 for your chemo protective wear, or BFEs for your masks, you can be confident that we will have all the information you need, in the detail you need, with the backup you need, every time.

Quality Systems

BioClean™ products are manufactured under the controls imposed by our ISO 9001 certified Quality Management System. Our UK head office hold Quality System Certification issued by Alcumus ISOQAR Ltd and our manufacturing and processing plant in Malaysia hold Quality System Certification issued by SGS United Kingdom Ltd.

We provide the highest quality products to meet the stringent requirements of the pharmaceutical, life sciences and microelectronics industries. Wherever BioClean products are designed to protect the wearer from specific hazards they are CE marked in accordance with the European Personal Protective Equipment Directive and are fully covered by Article 10 and Article 11 certification.



Cleanroom Classification

In our manufacturing and processing facility we operate two state-of-the-art cleanrooms, an ISO Class 4 (Federal Class 10) and an ISO Class 5 (Federal Class 100).

The classification numbers are defined by the International Standard ISO 14644-1. The table below is reproduced from the Standard and shows the level of cleanliness associated with each number.

All BioClean™ products are processed, washed and packed in our ISO Class 4 or ISO Class 5 cleanrooms. Whilst the table below shows the requirements for particle limits for various sized particles ranging from 0.1 µm to 5 µm, the industry standard looks at particle levels at 0.5 µm.

The table below shows that in our ISO Class 4 cleanroom, we are allowed no more than 352 particles of size 0.5 µm per cubic metre, and for our ISO Class 5, this increases to 3520 particles of size 0.5 µm per cubic metre. To put this into perspective the average human hair is 150 times thicker than the particles we are measuring, and the average cubic metre of air outside your office has over 10 million particles of this size!

Some cleanroom operators refer to their cleanrooms as 'Class 10' or 'Class 100' using the American classification standard FED-STD-209E, which denotes the number of particles of size 0.5 µm or larger permitted per cubic foot of air (as opposed to cubic metre). The final column of the table below shows the US classifications that are comparable to the ISO standard classifications.

ISO classification number (N)	Maximum allowable concentrations (particles/m³) for particles equal to and greater than the considered sizes shown below						FED-STD-209E
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm	
ISO Class 1	10						
ISO Class 2	100	24	10				
ISO Class 3	1,000	237	102	35			Class 1
ISO Class 4	10,000	2,370	1,020	352	83		Class 10
ISO Class 5	100,000	23,700	10,200	3,520	832		Class 100
ISO Class 6	1,000,000	237,000	102,000	35,200	8,320	293	Class 1,000
ISO Class 7				352,000	83,200	2,930	Class 10,000
ISO Class 8				3,520,000	832,000	29,300	Class 100,000
ISO Class 9				35,200,000	8,320,000	293,000	

Independent Certification of our Cleanrooms at Nitritex (M) Sdn. Bhd.

Independent testing of the cleanrooms is performed annually (as outlined in ISO 14644-1) with the classifications attained and maintained as follows:

- Cleanroom 1: ISO Class 4
- Clean Corridor 1: ISO Class 4
- Cleanroom 2: ISO Class 5
- Clean Corridor 2: ISO Class 5
- Changing Room: ISO Class 6
- Carton Packing Room: ISO Class 7
- Disposable Garment Section: ISO Class 7

GLOVES

Within the extensive BioClean™ range of cleanroom gloves there is a product ideally suited to your particular needs, be it for personal or product protection.

Our vast experience and expertise in life science, medical device and microelectronics cleanroom environments ensures that our range of sterile and non-sterile ISO Class 4 & 5 compatible gloves offers extreme comfort, strength and tactility. Not only are they available in a choice of lengths to provide complete protection, but they are also manufactured in a wide variety of materials and colours to suit individual preferences and applications.

Quality Systems, Testing & Packaging

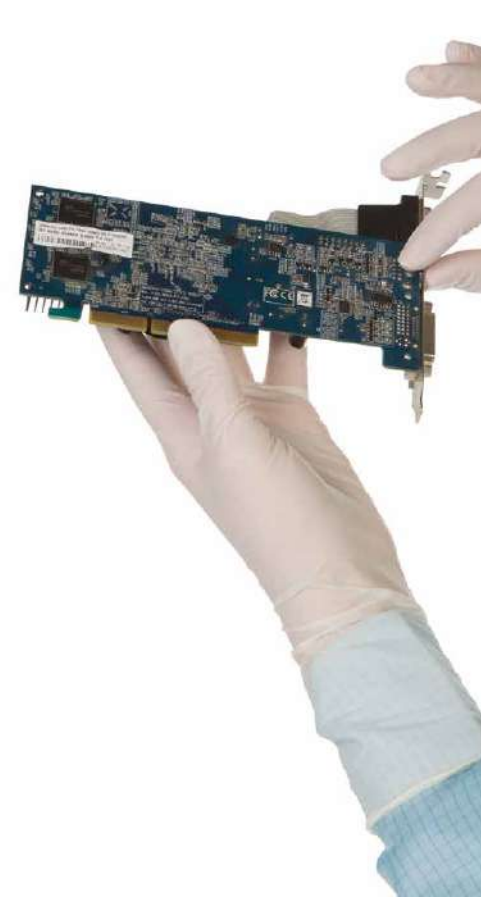
We pay particular attention to the specifications of our products to ensure they meet the exact requirements of our customers and all relevant regulations.

We can only achieve total customer satisfaction by meeting those requirements, and do so by the rigorous implementation and maintenance of fully certified Quality Management Systems, both in the UK and at our manufacturing facility in Malaysia.

BioClean gloves are processed in our facility which holds ISO 9001:2008 certification and are washed and packed in our NEBB certified ISO Class 4 or ISO Class 5 cleanrooms.

The manufacturing, processing, inspection and packing, plus irradiation (where applicable) of our gloves, is fully certified and validated. To ensure ISO Class 4 and GMP Grade A compatibility, all BioClean cleanroom gloves undergo extensive washing with deionized water which has been UV treated.

All BioClean sterile cleanroom gloves are pair packed in plastic wallets and then in non-particulating EasyTear™ pouches, making them easy to open and avoiding the introduction of particles commonly associated with peel pouches. BioClean sterile and non-sterile gloves are all double-bagged.





1



2



What is the difference between Type I and Type IV allergies?

Type I: The most serious and the rarest form, Type I is an immediate and potentially life threatening reaction, not unlike the severe reaction some people have to nuts or bee stings. This form of allergy is caused by a reaction to the protein in natural latex and can be acquired over a period of time due to prolonged contact with rubber products.

Type IV: Otherwise known as delayed type hypersensitivity. Allergic contact dermatitis is the main Type IV reaction exhibited as a result of continued exposure to gloves. This involves a delayed skin rash with blistering and oozing of the skin, and is usually attributed to the accelerators (certain chemicals added to the mixture) used in the gloves manufacturing process. All BioClean gloves are thoroughly washed in hot water to leach out the water soluble accelerators. However, for those that are super-sensitive to minute quantities of residual accelerators, we have products available that are 100% accelerator free.



3



4



Are my gloves suitable for use with cytotoxic (chemotherapy) drugs?

The BioClean Chemo Safety Wear range of gloves has been extensively tested, against the American standard ASTM D6978-05, for a range of cytotoxic drugs, measuring and recording excellent barrier performance using 0.01µg/cm²/min as the permeation limit - a level 100 times more stringent than under the more commonly used European test. Please see the Chemo Safety Wear section of this catalogue for further details on glove testing.



STERILE GLOVES

1. BIOCLEAR PRELUDE™ / BPSL

	300mm / 12"	
	Natural	
	Sterile	
	Latex	
	Double-donnable	
	Ambidextrous • Textured	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420 & EN 455	
	20 bags of 10 pairs (200 pairs) per carton	

Re-order Code	Size	Re-order Code	Size
BPSL-5055	5.0-5.5	BPSL-8085	8.0-8.5
BPSL-6065	6.0-6.5	BPSL-9090	9.0
BPSL-7075	7.0-7.5	BPSL-1010	10.0

2. BIOCLEAR ADVANCE™ / BASL

	300mm / 12"	
	Natural	
	Sterile	
	Latex	
	Double-donnable	
	Hand specific • Textured	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420 & EN 455	
	20 bags of 10 pairs (200 pairs) per carton	

Re-order Code	Size	Re-order Code	Size
BASL6.0	6.0	BASL8.0	8.0
BASL6.5	6.5	BASL8.5	8.5
BASL7.0	7.0	BASL9.0	9.0
BASL7.5	7.5	BASL10.0	10.0

3. BIOCLEAR EXTRA™ / BLAS

	400mm / 16"	
	Natural	
	Sterile	
	Latex	
	Double-donnable	
	Ambidextrous • Textured • Improved grip	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420 & EN 455	
	20 bags of 10 pairs (200 pairs) per carton	

Re-order Code	Size	Re-order Code	Size
BLAS-S	Small	BLAS-L	Large
BLAS-M	Medium	BLAS-XL	X-Large

4. BIOCLEAR MAXIMA™ / BLLS

	600mm / 24"	
	Natural	
	Sterile	
	Latex	
	Double-donnable	
	Hand specific • Textured • Shoulder length	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420 & EN 455	
	10 bags of 10 pairs (100 pairs) per carton	

Re-order Code	Size	Re-order Code	Size
BLLS60*	6.0	BLLS80	8.0
BLLS65	6.5	BLLS85	8.5
BLLS70	7.0	BLLS90	9.0
BLLS75	7.5	BLLS100*	10.0

*Size subject to minimum order quantity and lead times



Nitrile

Sensitive, soft and flexible with good puncture resistance and chemical protection. 100% latex-free thereby avoiding the risk of latex allergies.

BIOCLEAN EXCELL™ / BEXS

	300mm / 12"
	White
	Sterile
	Nitrile
	Antistatic
	Hand specific • Textured
	Accelerator free
	ISO Class 4 • EU GMP Grade A compatible
	Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton



Re-order Code	Size	Re-order Code	Size
BEXS-60	6.0	BEXS-80	8.0
BEXS-65	6.5	BEXS-85	8.5
BEXS-70	7.0	BEXS-90	9.0
BEXS-75	7.5	BEXS-100	10.0

BIOCLEAN N-PLUS™ / BNPS

	400mm / 16"
	White
	Sterile
	Nitrile
	Antistatic
	Hand specific • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton



Re-order Code	Size	Re-order Code	Size
BNPS60	6.0	BNPS80	8.0
BNPS65	6.5	BNPS85	8.5
BNPS70	7.0	BNPS90	9.0
BNPS75	7.5	BNPS100	10.0



BIOCLEAN EMERALD™ / BENS

	300mm / 12"
	Green
	Sterile
	Nitrile
	Antistatic
	Double-donnable
	Hand specific • Textured
	Accelerator free
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton



Re-order Code	Size	Re-order Code	Size
BENS6.0	6.0	BENS8.0	8.0
BENS6.5	6.5	BENS8.5	8.5
BENS7.0	7.0	BENS9.0	9.0
BENS7.5	7.5	BENS10.0	10.0



BIOCLEAN JADE™ / BJAS

	300mm / 12"
	Green
	Sterile
	Nitrile
	Antistatic
	Double-donnable
	Ambidextrous • Textured
	Accelerator free
	ISO Class 4 • EU GMP Grade A compatible
	Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton



Re-order Code	Size	Re-order Code	Size
BJAS-5055	5.0 - 5.5	BJAS-8085	8.0 - 8.5
BJAS-6065	6.0 - 6.5	BJAS-9090	9.0
BJAS-7075	7.0 - 7.5	BJAS-1010	10.0

BIOCLEAN INDIGO™ / BNPLS

	300mm / 12"
	Purple
	Sterile
	Nitrile
	Antistatic
	Ambidextrous • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton



Re-order Code	Size	Re-order Code	Size
BNPLS5055	5.0 - 5.5	BNPLS8085	8.0 - 8.5
BNPLS6065	6.0 - 6.5	BNPLS9090	9.0
BNPLS7075	7.0 - 7.5	BNPLS1010	10.0

BIOCLEAN NITRAMAX™ / BNMS

	600mm / 24"
	White
	Sterile
	Nitrile
	Antistatic
	Hand specific • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 10 pairs (100 pairs) per carton













Re-order Code	Size	Re-order Code	Size
BNMS-65	6.5	BNMS-80	8.0
BNMS-70	7.0	BNMS-85	8.5
BNMS-75	7.5	BNMS-90	9.0

Neoprene











A top of the range, stretchy, synthetic rubber with excellent resistance to many chemicals, a tough material but soft to the touch. 100% latex-free thereby avoiding the risk of latex allergies.

Bioclean Suprene™ / BSNS

	300mm / 12"
	Mint green
	Sterile
	Neoprene
	Double-donnable
	Antistatic
	Hand specific • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420, EN 455 & EN 421
	20 bags of 10 pairs (200 pairs) per carton










Re-order Code	Size	Re-order Code	Size
BSNS-60	6.0	BSNS-8.0	8.0
BSNS-65	6.5	BSNS-8.5	8.5
BSNS-70	7.0	BSNS-9.0	9.0
BSNS-75	7.5		

Bioclean Fusion™ / S-BFAP

	290mm / 11.4"
	Green
	Sterile
	Polychloroprene
	Antistatic
	Double-donnable
	Ambidextrous • Finger-Textured
	ISO Class 4 • EU GMP Grade A compatible
	Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton











Re-order Code	Size	Re-order Code	Size
S-BFAP-5055	5.0 - 5.5	S-BFAP-8085	8.0 - 8.5
S-BFAP-6065	6.0 - 6.5	S-BFAP-9090	9.0
S-BFAP-7075	7.0 - 7.5	S-BFAP-1010	10.0

Bioclean P-Zero™ / BPZS

	300mm / 12"
	Natural
	Sterile
	Polychloroprene
	Antistatic
	Hand specific • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Re-order Code	Size
BPZS60	6.0	BPZS80	8.0
BPZS65	6.5	BPZS85	8.5
BPZS70	7.0	BPZS90	9.0
BPZS75	7.5		

Bioclean Ultimate™ / BUPS

	300mm / 12"
	Natural
	Sterile
	Polychloroprene
	Antistatic
	Double-donnable
	Hand specific • Textured
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978 • Complies with EN ISO 374, EN 420 & EN 455
	20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Re-order Code	Size
BUPS-60	6.0	BUPS-80	8.0
BUPS-65	6.5	BUPS-85	8.5
BUPS-70	7.0	BUPS-90	9.0
BUPS-75	7.5		

Polychloroprene

Combines the best of latex with the best of nitrile; elasticity and comfort of latex, with the puncture resistance and chemical protection of nitrile. 100% latex-free thereby avoiding the risk of latex allergies.



Why would I use a 16" (400mm) glove?

You would use a 16" (400mm) glove if protection up to elbow level was required or if there was concern that, with shorter gloves, there was a risk to the products from your skin being exposed between the glove and your sleeve.



Are BioClean gloves antistatic?

BioClean nitrile, vinyl and polychloroprene gloves have been tested to EN 1149-1 and found to be suitable for use where antistatic characteristics are required. Further information can be supplied on request.



BIOCLEAR SYNERGY™ / BSAN

	300mm / 12"
	Green
	Non-Sterile
	Nitrile
	Antistatic
	Accelerator free
	Double-donnable
	Ambidextrous • Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
BSAN-XS	X-Small	BSAN-L	Large
BSAN-S	Small	BSAN-XL	X-Large
BSAN-M	Medium	BSAN-XXL	XX-Large



BIOCLEAR BIOTAC™ / BIOTAC

	300mm / 12"
	White
	Non-Sterile
	Nitrile
	Antistatic
	Ambidextrous • Finger-Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
BIOTAC-XS	X-Small	BIOTAC-L	Large
BIOTAC-S	Small	BIOTAC-XL	X-Large
BIOTAC-M	Medium	BIOTAC-XXL *	XX-Large

* Size subject to minimum order quantity and lead time



BIOCLEAR NERVA™ / BNAL

	400mm / 16"
	White
	Non-Sterile
	Nitrile
	Antistatic
	Double-donnable
	Ambidextrous • Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
BNAL-S	Small	BNAL-XL	X-Large
BNAL-M	Medium	BNAL-XXL	XX-Large
BNAL-L	Large		



BIOCLEAR NERVA™ / BNAL-B

	400mm / 16"
	Blue
	Non-Sterile
	Nitrile
	Antistatic
	Double-donnable
	Ambidextrous • Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
BNAL-B-S	Small	BNAL-B-XL	X-Large
BNAL-B-M	Medium	BNAL-B-XXL	XX-Large
BNAL-B-L	Large		



BIOCLEAR NANO 4™ / NAN4

	300mm / 12"
	White
	Non-Sterile
	Nitrile
	Antistatic
	Ambidextrous • Finger-Textured
	Accelerator free
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
NAN4-XS*	X-Small	NAN4-L	Large
NAN4-S	Small	NAN4-XL	X-Large
NAN4-M	Medium	NAN4-XXL	XX-Large

* Size subject to minimum order quantity and lead time



BIOCLEAR NANO 5™ / NAN5

	300mm / 12"
	White
	Non-Sterile
	Nitrile
	Antistatic
	Ambidextrous • Finger-Textured
	ISO Class 5 compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton

Re-order Code	Size	Re-order Code	Size
NAN5-XS	X-Small	NAN5-L	Large
NAN5-S	Small	NAN5-XL	X-Large
NAN5-M	Medium	NAN5-XXL	XX-Large





Vinyl
Loose fitting, comfortable, economical and still the preferred choice of many in the electronics industry. 100% latex-free thereby avoiding the risk of latex allergies.

BIOCLEAR VISTA™ / BVA

	300mm / 12"
	Clear
	Non-sterile
	Antistatic
	Vinyl
	Ambidextrous • Smooth
	ISO Class 4 Compatible
	10 bags of 100 pieces (1000 pieces) per carton



Re-order Code	Size	Re-order Code	Size
BVA-S	Small	BVA-L	Large
BVA-M	Medium	BVA-XL	X-Large

BIOCLEAR VECTOR™ / BVA-E

	300mm / 12"
	Clear
	Non-sterile
	Antistatic
	Vinyl
	Ambidextrous • Smooth
	ISO Class 5 compatible
	10 bags of 100 pieces (1000 pieces) per carton



Re-order Code	Size	Re-order Code	Size
BVA-E-S	Small	BVA-E-L	Large
BVA-E-M	Medium	BVA-E-XL	X-Large



BIOCLEAR FUSION™ / BFAP

	290mm / 11.4"
	Green
	Non-sterile
	Polychloroprene
	Antistatic
	Double-donnable
	Ambidextrous • Finger-Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton



Re-order Code	Size	Re-order Code	Size
BFAP-XS	X-Small	BFAP-L	Large
BFAP-S	Small	BFAP-XL	X-Large
BFAP-M	Medium	BFAP-XXL	XX-Large



BIOCLEAR LEGACY™ / BLA2

	300mm / 12"
	Natural
	Non-sterile
	Latex
	Double-donnable
	Ambidextrous • Textured
	ISO Class 4 Compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton



Re-order Code	Size	Re-order Code	Size
BLA200-XS	X-Small	BLA203-L	Large
BLA201-S	Small	BLA204-XL	X-Large
BLA202-M	Medium	BLA205-XXL	XX-Large

BIOCLEAR LEGION™ / BLA3

	400mm / 16"
	Natural
	Non-sterile
	Latex
	Double-donnable
	Ambidextrous • Textured
	ISO Class 5 compatible
	Complies with EN ISO 374, EN 420 & EN 455
	10 bags of 100 pieces (1000 pieces) per carton



Re-order Code	Size	Re-order Code	Size
BLA301-S	Small	BLA303-L	Large
BLA302-M	Medium	BLA304-XL	X-Large



I am confused... some gloves are sold in Small, Medium & Large, others are 7.0, 7.5, 8.0 etc. Why?

Ambidextrous gloves (which fit either hand) are generally sold in Small, Medium, Large and Extra Large sizes. Anatomical (hand specific) gloves are sold in numeric sizes from 5.5 (smallest) through to 10.0 (largest) in increments of 0.5. Small is equal to 6.0-6.5, Medium to 7.0-7.5, Large to 8.0-8.5, XLarge to 9.0 and XXL large to 10.0. Dimensions for both types are covered under the European Standards EN 455-2 and EN 420



Can sterile surgical gloves be taken into a cleanroom?

This is not recommended. Cleanroom gloves should be powder-free, washed in deionized water and packed in a cleanroom in cleanroom compatible packaging to minimise contamination in your cleanroom environment. All BioClean gloves are suitable for cleanroom use.



BioClean BarrierPlus Gauntlet Range

BioClean BarrierPlus™ sterile isolator and Restricted Access Barrier System (RABS) gauntlets and sleeves are designed for use in highly controlled environments. They have been developed to meet the stringent requirements of a pharmaceutical barrier system, where gauntlets/sleeves are used when compounding or manufacturing pharmaceuticals. The BarrierPlus range consists of three configurations; a gauntlet, sleeve and mitten.

Processed in an ISO Class 4 cleanroom, BioClean BarrierPlus gauntlets and sleeves have incredibly low levels of particulates and are packed in cleanroom compatible packaging. Manufactured from white-coloured accelerator-free nitrile (a stretchy, chemical-resistant synthetic rubber), they are resistant to a wide range of chemicals including a selection of commonly-used chemotherapy drugs. Nitrile also exhibits excellent Electrostatic Dissipative (ESD) properties.



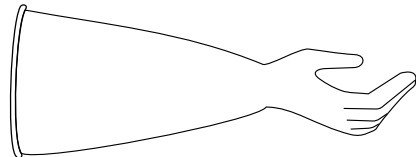
BIOCLEAR BARRIERPLUS GAUNTLET™ / S-BBNG

	840mm /33"	
	White	
	Sterile	
	Nitrile	
	Smooth surface	
	Suitable for port sizes 150mm - 355mm (6" to 14")	
	100% inspected • Water & air leak tested	
	Can be sanitized with VHP or IPA	
	Suitable for autoclaving	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420, EN 455 & EN 388	
	One piece per triple bag • 20 pieces per carton liner • One carton liner per white Correx box • Two Correx boxes per outer Correx box (40 pieces)	

Re-order Code	Port Size	Glove Size
S-BBNG-6090	6"-7.5"	9.0
S-BBNG-8090	8"-9.5"	9.0
S-BBNG-1090	10"-12"	9.0
S-BBNG-1190*	12"-14"	9.0

* Size subject to minimum order quantity and lead times

Glove Drawing

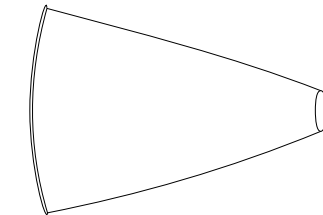


BIOCLEAR BARRIERPLUS SLEEVES™ / S-BBNSO

	660mm /26"	
	White	
	Sterile	
	Nitrile	
	Smooth surface	
	Suitable for port sizes 150mm - 300mm (6" to 12")	
	100% inspected • Water & air leak tested (prior to guillotining)	
	Can be sanitized with VHP or IPA	
	Suitable for autoclaving	
	ISO Class 4 • EU GMP Grade A compatible	
	One piece per triple bag • 20 pieces per carton liner • One carton liner per white Correx box • Two Correx boxes per outer Correx box (40 pieces)	

Re-order Code	Port Size
S-BBNSO-60	6"
S-BBNSO-80	8"
S-BBNSO-10	10"
S-BBNSO-12	12"

Glove Drawing

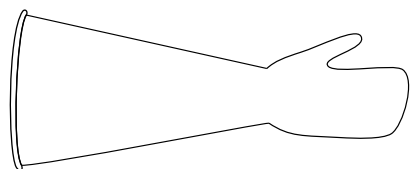


BIOCLEAR BARRIERPLUS MITTEN™ / S-BBNM

	840mm /33"	
	White	
	Sterile	
	Nitrile	
	Smooth surface	
	Suitable for port sizes 230mm - 265mm (9" to 10.5")	
	100% inspected • Water & air leak tested	
	Can be sanitized with VHP or IPA	
	Suitable for autoclaving	
	ISO Class 4 • EU GMP Grade A compatible	
	Complies with EN ISO 374, EN 420 & EN 455	
	One piece per triple bag • 20 pieces per carton liner • One carton liner per white Correx box • Two Correx boxes per outer Correx box (40 pieces)	

Re-order Code	Port Size	Glove Size
S-BBNM	9" - 10.5"	9.5

Glove Drawing



BIOCLEAR-D™ DISPOSABLE GARMENTS

BioClean-D™ garments are specially designed and manufactured from CleanTough™ lightweight low-linting material. They provide an excellent combination of both comfort and protection with full head-to-toe coverage in various combinations of coveralls, hoods, sleeve covers, lab coats and overboots and are available in both sterile and non-sterile to suit all controlled environments. Our ISO Class 4 Compatible garment range is one of the most tested on the market today, providing your operators with full head-to-toe coverage.

Quality Systems, Testing & Packaging

BioClean-D standard coveralls are Type 5 and 6 Category 3 compliant, which covers a wide range of tests including tear and puncture resistance, seam strength and resistance to liquids.

BioClean-D material is antistatic (EN11149-1 compliant) ensuring that any electrostatic build-up by the operator is dispersed safely and has been tested against ASTM F739-99A, the cytotoxic drugs handling standard.

BioClean-D garments have excellent Helmke Drum test results (this test method simulates particle shedding of garments under movement. Results are available on request) ensuring ISO Class 4 compatibility. Sterilization is by gamma irradiation to SAL 10⁻⁶.

The manufacturing, processing and packing takes place in our ISO Class 4 cleanroom and the sterilization of the BioClean-D garment range is fully certified and validated to ISO 11137.

BioClean-D garments are double bagged in non-particulating EasyTear™ bags making them easy to open and avoiding the introduction of particles into the cleanroom.









BIOCLEAN-D™ DROP-DOWN GARMENT



A new era of **aseptic donning**



BIOCLEAN-D™ DROP-DOWN GARMENT / S-BDSH









	Sterile
	ISO Class 4 • EU GMP Grade A compatible
	Tested to ASTM D 6978
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	Thumb loops to ensure secure hold • Elasticated back, hood, cuffs and ankles • Quick release press stud tabs for touch-free donning
	20 individually packed coveralls per carton (XXXL & XXXXL – 15 pieces per carton)

Re-order Code	Size	Re-order Code	Size **
S-BDSH-XS	X-Small	S-BDSH-XL	X-Large
S-BDSH-S	Small	S-BDSH-XXL	XX-Large
S-BDSH-M	Medium	S-BDSH-XXXL	XXX-Large
S-BDSH-L	Large	S-BDSH-XXXXL*	XXXX-Large

*Size subject to minimum order quantity and lead times.
**Please see BioClean-D sizing guide on Page 63.



BIOCLEAN-D™ COVERALL WITH HOOD AND INTEGRATED BOOTS / S-BDFC & BDFC

	Sterile & Non-sterile		
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)		
	Tested to ASTM D 6978		
	PPE Category 3 Type 5 & 6		
	Antistatic, low-linting BioClean-D CleanTough™ white fabric		
	Thumb loops to ensure secure hold • Zip with front cover • Slip-resistant soles • Elasticated back, hood, cuffs and ankles • Elasticated face opening with reinforced edges		
	Sterile: 20 individually packed coveralls per carton (XXXL & XXXXL – 15 pieces per carton) Non-Sterile: 20 individually packed coveralls per carton (XXXL – 15 pieces per carton)		

Re-order Code Sterile	Re-order Code Non-Sterile	Size **
S-BDFC-S	BDFC-S*	Small
S-BDFC-M	BDFC-M*	Medium
S-BDFC-L	BDFC-L*	Large
S-BDFC-XL	BDFC-XL*	X-Large
S-BDFC-XXL	BDFC-XXL*	XX-Large
S-BDFC-XXXL	BDFC-XXXL*	XXX-Large
S-BDFC-XXXXL	BDFC-XXXXL*	XXXX-Large

*Size subject to minimum order quantity and lead time
**Please see BioClean-D sizing guide on Page 63.

BIOCLEAN-D™ COVERALL
with **HOOD** *and* **INTEGRATED BOOTS**
S-BDFC & BDFC



Protection from Head-to-Toe

BIOCLEAR-D™ COVERALL *with HOOD*
S-BDCHT & BDCHT



Comfort & Protection



BIOCLEAR-D™ COVERALL WITH HOOD
S-BDCHT & BDCHT

	Sterile & Non-sterile
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Tested to ASTMD 6978
	PPE Category 3 Type 5 & 6
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	Thumb loops to ensure secure hold • Zip with front cover • Elasticated back, hood, cuffs and ankles • Elasticated face opening with reinforced edges
	20 individually packed coveralls per carton (XXXXL & XXXXL – 15 pieces per carton)



Re-order Code Sterile	Re-order Code Non-Sterile	Size **
S-BDCHT-S	BDCHT-S	Small
S-BDCHT-M	BDCHT-M	Medium
S-BDCHT-L	BDCHT-L	Large
S-BDCHT-XL	BDCHT-XL	X-Large
S-BDCHT-XXL	BDCHT-XXL	XX-Large
S-BDCHT-XXXL	BDCHT-XXXL*	XXX-Large
S-BDCHT-XXXXL	BDCHT-XXXXL*	XXXX-Large

* Size subject to minimum order quantity and lead time
** Please see BioClean-D sizing guide on Page 63.





BIOCLEAN-D™ COVERALL
with **COLLAR**
S-BDCCT & BDCCT

	Sterile & Non-sterile	
	ISO Class 4 • EU GMP Grade A Compatible (Sterile)	
	ISO Class 4 Compatible (Non-Sterile)	
	Tested to ASTM D 6978	
	PPE Category 3 Type 5 & 6	
	Antistatic, low-linting BioClean-D CleanTough™ white fabric	
	Thumb loops to ensure secure hold • Zip with front cover • Elasticated back, cuffs and ankles	
	20 individually packed coveralls per carton (XXXL & XXXXL – 15 pieces per carton)	

Re-order Code Sterile	Re-order Code Non-Sterile	Size**
S-BDCCT-S	BDCCT-S	Small
S-BDCCT-M	BDCCT-M	Medium
S-BDCCT-L	BDCCT-L	Large
S-BDCCT-XL	BDCCT-XL	X-Large
S-BDCCT-XXL	BDCCT-XXL	XX-Large
S-BDCCT-XXXL	BDCCT-XXXL*	XXX-Large
S-BDCCT-XXXXL	BDCCT-XXXXL*	XXXX-Large

*Size subject to minimum order quantity and lead time
**Please see BioClean-D sizing guide on Page 63.



Does the zip area give the same level of protection?
Yes - providing the garment is correctly worn. The zip has a protective flap of BioClean-D CleanTough white fabric which can be closed over the zip once the zip has been pulled up. Double-sided tape on the reverse of the zip flap allows it to be secured in place so that it covers the zip completely and does not open up during movement.



Are the BioClean-D garments antistatic?
Yes, all BioClean-D garments are antistatic and meet the requirements of EN1149-1:2006 i.e. they have a surface resistance less than $5 \times 10^{10} \Omega$.

BIOCLEAN-D™ LABCOAT
S-BDLC & BDLC

	Sterile & Non-sterile	
	Non-critical environment	
	Tested to ASTM D 6978	
	PPE Category 3 Type PB[6]	
	Antistatic, low-linting BioClean-D CleanTough™ white fabric	
	Press stud fastenings • Open cuff • Three pockets & rear vent	
	30 individually packed coats per carton	

Re-order Code Sterile	Re-order Code Non-Sterile	Size**
S-BDLC-S	BDLC-S	Small
S-BDLC-M	BDLC-M	Medium
S-BDLC-L	BDLC-L	Large
S-BDLC-XL	BDLC-XL	X-Large
S-BDLC-XXL	BDLC-XXL	XX-Large

**Please see BioClean-D sizing guide on Page 63.



BIOCLEAN-D™ SLEEVE COVERS / S-BDSC-L & BDSC-L

	Sterile & Non-sterile
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Tested to ASTM D 6978
	PPE Category 3 Type PB[6]
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	500mm length • Elasticated arms and cuffs
	Sterile: One pair per inner bag, 15 inner bags per outer bag, six outer bags (90 pairs) per lined carton Non-Sterile: 30 pieces per inner bag, one inner bag per outer bag, six outer bags (180 pieces) per lined carton

Re-order Code Sterile	Re-order Code Non-Sterile	Size
S-BDSC-L	BDSC-L	Universal



BIOCLEAN-D™ HOOD / S-BDHD-L & BDHD-L

	Sterile & Non-sterile
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Tested to ASTM D 6978
	PPE Category 3 Type PB[6]
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	Elasticated face opening with reinforced edges • Extra long yoke • Three piece design
	Sterile: One piece per inner bag, 20 inner bags per outer bag, six outer bags (120 pieces) per lined carton Non-Sterile: 20 pieces per inner bag, one inner bag per outer bag, six outer bags (120 pieces) per lined carton

Re-order Code Sterile	Re-order Code Non-Sterile	Size
S-BDHD-L	BDHD-L	Universal



BIOCLEAN-D™ OVERBOOTS / S-BDOB & BDOB

	Sterile & Non-sterile
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Tested to ASTM D 6978
	PPE Category 3 Type PB[6]
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	Elasticated top with secure ties • Slip-resistant soles
	Sterile: One pair per inner bag, 15 inner bags per outer bag, five outer bags (75 pairs) per lined carton Non-Sterile: 30 pieces per inner bag, one inner bag per outer bag, five outer bags (150 pieces) per lined carton

Re-order Code Sterile	Re-order Code Non-Sterile	Size
S-BDOB	BDOB	Universal



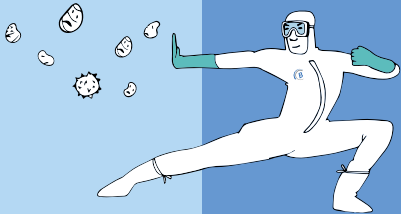
BIOCLEAN-D™ OVERBOOTS – LONGER LENGTH S-BDOB-L & BDOB-L

	Sterile & Non-sterile
	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Tested to ASTM D 6978
	PPE Category 3 Type PB[6]
	Antistatic, low-linting BioClean-D CleanTough™ white fabric
	Elasticated top • secure ties at calf and ankle • Slip-resistant soles
	Sterile: One pair per inner bag, 15 inner bags per outer bag, five outer bags (75 pairs) per lined carton Non-Sterile: 30 pieces per inner bag, one inner bag per outer bag, five outer bags (150 pieces) per lined carton

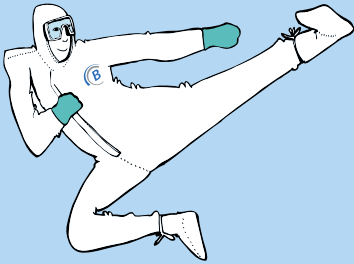
Re-order Code Sterile	Re-order Code Non-Sterile	Size
S-BDOB-L	BDOB-L	Universal



Can non-sterile BioClean-D garments be sterilized?
Whilst non-sterile BioClean-D garments cannot be sterilized as gamma irradiation would cause the material to deteriorate, we have a range of sterile BioClean-D garments available.



How is BioClean-D™ packaged?
BioClean-D™ garments are double bagged in non-particulating EasyTear™ bags making them easy to open and avoiding the introduction of particles into the cleanroom.



What is the material used?
BioClean-D garments are all manufactured using our BioClean-D CleanTough™ white fabric which is spunbonded, non-woven polypropylene, laminated with a film of polyethylene. This allows comfort and flexibility during use and protection against fine sprays and particles.

BIOCLEAN-C™

CHEMO

SAFETY WEAR

The BioClean-C™ range of Chemo Safety Wear consisting of aprons and sleeve covers provide an essential layer of protection without compromising comfort. Worn with BioClean-D garments as the base protection layer the two combined provide protection from head-to-toe when handling hazardous chemicals.

BioClean chemotherapy gloves are non-latex, designed to work as a double-gloving system for extra protection and have been tested against the world's most stringent standard, ASTM D6978-05, to ensure the safe handling of chemotherapy drugs. This standard is the internationally accepted standard specifically designed for the assessment of resistance of medical gloves to permeation by chemotherapy drugs, unlike the European standard EN16523-1:2015, which is not specific to chemotherapy drugs and has no requirement to test against any cytotoxics.

To complement the chemotherapy range, the highly absorbent sterile BioClean ChemPrep™ Prep Mat enhances workbench safety for technicians, nurses and pharmacists when they are preparing cytotoxic drugs for chemotherapy.

Processing & Packaging

The manufacturing, processing and packing in our ISO Class 4 cleanroom and the sterilization of the BioClean Chemo safety wear range is fully certified and validated.

Sterile BioClean chemotherapy garments and gloves are double bagged in non-particulating EasyTear™ packaging making them easy to open and avoiding the introduction of particles into the cleanroom.



BIOCLEAN-C™ CHEMOTHERAPY PROTECTIVE APRON / S-BCDA & BCDA

☢	Sterile & Non-sterile
4	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
III	PPE Category 3 Type PB[6]
🔍	Low-linting BioClean-C CleanTough™ blue fabric
✂	Adjustable neck fastening • Tie-tapes at rear
☢	Tested to ASTM D6978-05
📦	50 individually packed aprons per carton



Re-order Code Sterile	Re-order Code Non-Sterile	Size*
S-BCDA-S	BCDA-S	Small
S-BCDA-M	BCDA-M	Medium
S-BCDA-L	BCDA-L	Large

* Please see BioClean-C sizing guide on Page 63.



BIOCLEAR-C™
CHEMOTHERAPY
APRON *with* SLEEVES
S-BCAS & BCAS

☢	Sterile & Non-sterile
4	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
☢	PPE Category 3 Type PB[6]
🔍	Low-linting BioClean-C CleanTough™ blue fabric
✂	Adjustable neck fastening • Tie-tapes at rear • Attached sleeves with elasticated cuffs • Ultrasonically bonded seams with protective tape
☢	Tested to ASTM D6978-05
📦	40 individually packed aprons per carton



Re-order Code Sterile	Re-order Code Non-Sterile	Size*
S-BCAS-S	BCAS-S	Small
S-BCAS-M	BCAS-M	Medium
S-BCAS-L	BCAS-L	Large
S-BCAS-XL	BCAS-XL	X-Large

*Please see BioClean-C sizing guide on Page 63.



BIOCLEAR-C™ SLEEVE COVER / S-BCSC & BCSC

☢	Sterile & Non-sterile
4	ISO Class 4 • EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
☢	PPE Category 3 Type PB[6]
🔍	Low-linting BioClean-C CleanTough™ blue fabric
✂	Elasticated arms and elasticated polyester cuffs • Ultrasonically bonded seams with protective tape
☢	Tested to ASTM D6978-05
📦	Sterile: One pair per inner bag, 15 inner bags per outer bag, six outer bags (90 pairs) per lined carton Non-Sterile: 30 pieces per inner bag, one inner bag per outer bag, six outer bags (180 pieces) per lined carton



Re-order Code Sterile	Re-order Code Non-Sterile	Size
S-BCSC	BCSC	Universal



BIOCLEAR CHEMPREP™ PREPMAT / S-BCPM

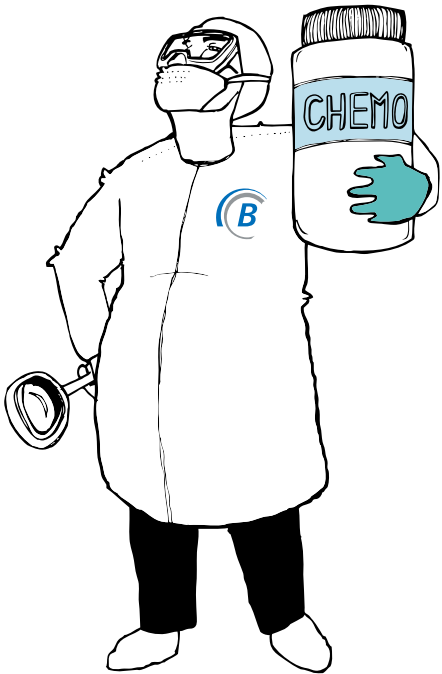
☢	Sterile
5	ISO Class 5 & EU GMP Grade A
🔍	Low linting • Latex free • Triple laminate
✂	Mesh upper layer • Highly absorbent middle layer and impermeable bottom layer

Re-order Code	Size	Packing 📦
S-BCPM-4025B	40cm x 25cm	Four bags of 50 double bagged mats (200) per carton
S-BCPM-5640B	56cm x 40cm	Four bags of 25 double bagged mats (100) per carton

Quality Systems & Testing

BioClean™ Chemo Safety Wear is tested against the most stringent standard, the American ASTM D6978-05 (Table 1), which employs a testing limit 100 times more stringent than its European counterpart. We do not promote our products using results achieved under EN16523-1:2015 (formerly EN374-3) as, quite simply, this benchmark is not safe when assessing the suitability of a glove or garment for protection against cytotoxic drugs.

To illustrate how misleading the results from EN16523-1:2015 can be when compared to ASTM D6978-05, which is designed specifically for cytotoxics, we have tested our gloves using the same permeation rate prescribed by EN16523-1:2015 (Table 2). The results show no breakthrough after 480 minutes at the 1.00 µg/cm²/min level. We could have chosen to publish these first-class results, and foregone testing using ASTM D6978-05, but we know that exposure to even tiny doses of cytotoxic drugs can be very harmful. This is why we insist on only using ASTM D6978-05 as the benchmark for safety when it comes to glove and garment choice.



Comparisons between EN16523-1:2015 and ASTM D6978-05

DIFFERENCE	EN16523-1:2015 *	ASTM D6978-05 **	CONSEQUENCE
Thickness of the Test Specimens	Sample has to be taken from the palm of the glove. (EN 374-1)	Sample has to be taken from either the palm or the cuff of the glove, whichever is the thinner.	The ASTM D6978-05 requirement ensures that the area of greatest risk is assessed. The cuff is usually the thinnest part of the glove, so gloves tested under EN16523-1:2015 are not challenged as rigorously.
Test Temperature	Testing to be conducted at a temperature of 23° ±1 °C.	Testing to be conducted at a temperature of 35° ±2 °C.	The higher temperature specified by ASTM D6978-05 has two consequences: 1. The temperature is 2 °C below body core temperature, which is similar to that of a human hand. 2. Permeation rates are greater at higher temperatures, making the test more stringent.
Test Chemicals	Testing is carried out against 1, 3 or 6 chemicals from a list of 18 chemicals (EN 374-1). None of the chemicals is a chemotherapy drug.	A minimum of nine chemotherapy drugs must be used for the test. Seven of them are mandatory under the standard; the other two must be selected from a pre-defined list.	The EN374-1:2016 list of chemicals will not give a representation of how the gloves will perform when challenged by chemotherapy drugs. Users purchasing these gloves for chemo use should be advised to have them tested for suitability.
Permeation Limit	Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 1.00 µg/cm²/min.	Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01 µg/cm²/min.	The ASTM D6978-05 test limit is set at 100 th of the EN16523-1:2015 limit. This requirement is far more stringent and reflects the potential hazards presented by chemotherapy drugs.

* EN16523-1:2015 Determination of material resistance to permeation by chemicals Part 1: Permeation by liquid chemical under conditions of continuous contact
** ASTM D6978-05 Standard practice for assessment of resistance of medical gloves to permeation by chemotherapy drugs

Table 1: Mean breakthrough detection time (minutes) as per ASTM D6978-05

Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01 µg/cm²/min

CHEMO DRUG	BSNS & S-BFAP*	BSNS & BENS**	BUPS & BENS***	BSNS****	BUPS	BPZS	BENS	BNPS	BNPLS	BIOCLEAR-C CLEAN TOUGH™ FABRIC (BLUE)
	Double-Gloving Results									
Cisplatin	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
Carmustine	16.4	15.6	>240	0.2	2	50.3	12.4	2.5	1.70	15
Cyclophosphamide	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
Doxorubicin Hydrochloride	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
5-Fluorouracil	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
Methotrexate	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
Etoposide	NT	NT	>480	>240	>480	>480	>480	>480	>480	>480
Paclitaxel	NT	NT	>480	>240	>480	>480	>480	>480	>480	11
Thiotepa	166.1	195.5	377	15.4	47.7	107.7	30.5	111	0.52	>480

BioClean-C™ garments are made from BioClean-C CleanTough™ blue fabric which has been tested in accordance with ASTM D6978-05 using the method laid down in ASTM F739-99a
NT = Denotes no test carried out against these drugs.
* Test was carried out using a combination of S-BFAP as the inner glove and BSNS as the outer glove
** Test was carried out using a combination of BENS as the inner glove and BSNS as the outer glove
*** Test was carried out using a combination of BENS as the inner glove and BUPS as the outer glove
**** BSNS testing was terminated at 240 mins

Table 2: Mean breakthrough detection time (minutes) as per EN16523-1:2015

Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 1.00 µg/cm²/min

CHEMO DRUG	BUPS	BENS	BPZS	BNPS	BNPLS
Cisplatin	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Carmustine	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Cyclophosphamide	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Doxorubicin Hydrochloride	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
5-Fluorouracil	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Methotrexate	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Etoposide	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Paclitaxel	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)
Thiotepa	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)	>480 (CLASS 6)

AUTOCCLAVABLE GOGGLES

BioClean Clearview™ autoclavable goggles consist of a range of premium reusable goggles manufactured from super-soft thermoplastic or silicone rubber. Our comprehensive range fits all face shapes, remaining comfortable even during extended use. Key features of the BioClean Clearview autoclavable goggles are their toughened, anti-scratch optically correct polycarbonate lenses, which provide unimpaired vision. A panoramic option is available with a lens which has extra depth and width. This increases the wearer's field of vision; the goggles can also be worn comfortably over eye glasses. The polypropylene strap has a hook and eye clip for easy donning and is easily adjusted to ensure a secure and stable fit.

Quality Systems & Testing

BioClean Clearview autoclavable goggles are supplied non-sterile and must be removed from the PE bag prior to autoclaving. The goggles have been tested to withstand a minimum of 40 autoclave cycles of 30 minutes duration at 121 °C. Spare lenses and straps are available to maximise the lifespan of the goggles.

We also offer a gamma irradiatable version, the BCAH, which can withstand 12 cycles at 25 kGy.



// What should I consider when choosing single use or autoclavable goggles?

If you have your own autoclave/steam or VHP sterilization facilities and spare capacity, it may prove more cost-effective to purchase the autoclavable goggles. However, a more convenient solution may be a single use sterile goggle if there are no facilities to allow for convenient re-sterilization of the goggles.



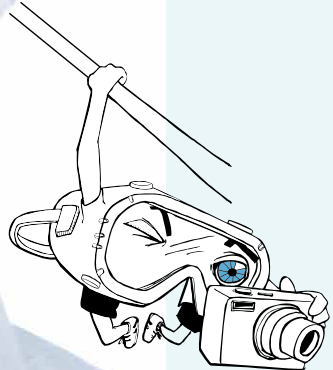
How do I know how many times a pair of goggles have been autoclaved?

We are able to add barcodes or a polyester number grid to the strap of the goggles to identify each goggle after autoclaving, to track how many times it has been autoclaved.











How do I make sure my goggles are fitted correctly?

Ensure the straps are tightened sufficiently to hold the goggles securely on the face, but do not tighten them excessively.



BIOCLEAN CLEARVIEW™ AUTOCLAVABLE GOGGLES / BCAG

	Non-sterile
	>40 autoclave cycles
	ISO Class 4 • EU GMP Grade A compatible when sterilized
	PPE Category 2
	Thermoplastic rubber body • Toughened anti-scratch polycarbonate lens • Non linting head band • Can be worn over eyeglasses
	Upper & lower indirect ventilation system
	One box of 12 goggles, five boxes (60 goggles) per carton
	Also available with blocked upper and/or lower vents



Re-order Code	Item
BCAG	Goggles
BCAG-SL	Spare lens
BCAG-SS	Spare straps



Can autoclavable goggles be irradiated?








In general, autoclavable goggles cannot be irradiated as it causes the body/frame of the goggle to discolour and deteriorate. However there is one model of BioClean autoclavable goggles that can be irradiated, the BCAH.



Are the autoclavable goggles supplied pre-autoclaved?

BioClean Clearview autoclavable goggles are not supplied pre-autoclaved and must be removed from the PE bag prior to autoclaving and placed in an autoclavable bag, then autoclaved at 121°C for a duration of 30 minutes.








1. BIOCLEAR CLEARVIEW™ AUTOCLAVABLE PANORAMIC GOGGLES / BCAP

	Non-sterile
	>40 autoclave cycles
	ISO Class 4 • EU GMP Grade A compatible when sterilized
	PPE Category 2
	Thermoplastic rubber body • Toughened anti-scratch polycarbonate lens • Latex-free silicone headband • Extra wide field of vision • Can be worn over large eyeglasses
	Upper & lower indirect ventilation system
	One box of 12 goggles, five boxes (60 goggles) per carton



Re-order Code	Item
BCAP	Goggles
BCAP-SL	Spare lens
BCAP-SS	Spare strap

2. BIOCLEAR CLEARVIEW™ AUTOCLAVABLE GOGGLES / BCAH

	Non-sterile
	>40 autoclave cycles
	ISO Class 4 • EU GMP Grade A compatible when sterilized
	Super soft silicone rubber body • Toughened anti-scratch polycarbonate lens • Can be worn over eyeglasses
	Upper ventilation system only
	One box of 12 goggles, five boxes (60 goggles) per carton
	Can withstand 12 gamma irradiation cycles

Re-order Code	Item
BCAH	Goggles
BCAH-SL	Spare lens
BCAH-SS	Spare strap

SINGLE-USE GOGGLES

Fully validated BioClean Clearview single use goggles are manufactured from lightweight, ultra-soft PVC and can be worn comfortably for long periods.

A key feature of these goggles is the optically correct toughened polycarbonate lens with anti-fog and anti-scratch coating, to provide unimpaired vision. The BioClean Clearview goggles strap is made from non-linting, latex-free silicone rubber, and is easily adjusted to provide a secure and stable fit. To ensure complete product protection, BioClean single use goggles have an indirect air circulation system restricting any eyelashes or eyebrows from entering the controlled environment, whilst at the same time ensuring excellent ventilation for user comfort.

Our single use goggles are fully validated for sterility and comply with ISO 11137-1.

Quality Systems & Testing

For customers requiring PPE certification, BioClean single use goggles are Category 2 EN166:2001 certified and, to ensure the highest quality, all goggles are individually inspected and packed in our ISO Class 4 cleanroom.








BioClean Clearview Sterile Single Use Goggles (BCGS1) have been tested to ANSI/ISEA Z87.1-2010, the American National Standard for Occupational and Educational Personal Eye and Face Protection Devices.

As with all BioClean products the manufacturing, processing and packing of the BioClean single use goggles is fully certified and validated.

BioClean single use goggles are double bagged in non-particulating Tyvek®/PE bags compatible with cleanroom use. With the exception of the strap, all components and packaging are fully recyclable.










BIOCLEARVIEW™ SINGLE USE GOGGLES BCGS1

	Sterile (EtO)		
	ISO Class 4 • EU GMP Grade A Compatible		
	PPE Category 2		
	Lightweight PVC body • Toughened polycarbonate lens with anti-fog & anti-scratch coating • Non linting headband • Can be worn over eyeglasses		
	Upper & lower indirect ventilation system		
	Six bags of 10 individually packed goggles (60 goggles) per carton		

Re-order Code
BCGS1










BIOCLEAR VJON™ SINGLE USE GOGGLES / BVGS

	Sterile (Gamma Irradiation)		
	ISO Class 4 • EU GMP Grade A Compatible		
	PPE Category 2		
	Lightweight PVC body • Toughened polycarbonate lens with anti-fog & anti-scratch coating • Non linting headband • Can be worn over eyeglasses		
	Upper & lower indirect ventilation system		
	Six bags of 10 individually packed goggles (60 goggles) per carton		

Re-order Code
BVGS



BIOCLEAR VJON™ SINGLE USE GOGGLES / BVGS-TV

	Sterile (Gamma Irradiation)		
	ISO Class 4 • EU GMP Grade A Compatible		
	PPE Category 2		
	Lightweight PVC body • Toughened polycarbonate lens with anti-fog & anti-scratch coating • Non linting headband • Can be worn over eyeglasses		
	Upper ventilation system only		
	Six bags of 10 individually packed goggles (60 goggles) per carton		

Re-order Code
BVGS-TV

FACEMASKS

The BioClean™ range of sterile and non-sterile cleanroom facemasks provide a comprehensive choice for face coverage, allowing the wearer to choose the right balance between performance and comfort.

Quality Systems & Testing

Our facemasks are processed in a certified ISO Class 4 cleanroom environment and undergo rigorous testing to ensure the highest standards are met. BFE/PFE and Helmke Drum tests results are available upon request.

Materials & Packing

BioClean facemasks are manufactured from the highest quality latex-free, low-linting materials and have a hydrophobic outer layer to repel liquids and a hygroscopic inner layer to absorb moisture for increased comfort.



What does BFE, PFE & Delta P mean?

When selecting a facemask for cleanroom use it's important to choose one with the right filtration efficiency for the level of protection needed. The BFE % of a facemask is the measurement of bacterial filtration efficiency and PFE % is the measurement of particle filtration efficiency. Facemasks with a high BFE and PFE % are recommended for use in cleanrooms, ensuring high filtration of both bacteria and particles.

The ΔP symbol stands for Differential Pressure (Delta P) and refers to the pressure drop across a facemask (or the resistance to air flow) and is measured in mmH₂O/cm². Therefore higher the Delta P of the facemask the less breathability but the better the filtration.



BIOCLEAR MEA™ LOOPED FACEMASK

MEA210-1

	Sterile
	ISO Class 4 • EU GMP Grade A Compatible
	INNER FACING LAYER: Non-woven polypropylene/polyethylene (hygroscopic) FILTER LAYER: Meltblown polyester OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	Ultra-low particulation • 3 ply - ultrasonic sealing • High BFE & PFE • Excellent breathability • High seam strength • Latex-free
	One piece with clip per inner bag, 50 inner bags per outer bag, 12 outer bags (600 pieces) per carton

Re-order Code
MEA210-1

MEA

	Non-sterile
	ISO Class 4 Compatible
	INNER FACING LAYER: Non-woven polypropylene/polyethylene (hygroscopic) FILTER LAYER: Meltblown polypropylene OUTER FACING LAYER: Non-woven polypropylene/polyethylene (hydrophobic)
	Ultra-low particulation • 3 ply - ultrasonic sealing • High BFE & PFE • Excellent breathability • High seam strength • Latex-free






Re-order Code	Packing
MEA210-0 (Bulk packed)	100 pieces per sealed inner PE bag; one inner bag per sealed outer PE bag; 20 outer bags per lined carton (2000 pieces)
MEA210-2* (Single with clip)	One piece per sealed inner PE bag; 50 inner bags per sealed outer PE bag; 12 outer bags per lined carton (600 pieces)
CC-FMC4 (Spare clips)	500 clips per inner bag, four inner bags per outerbag, 10 outer bags (20,000 clips) per carton

*Packing option subject to minimum order quantity and lead time.








BIOCLEAN DB™
POUCH-STYLE FACEMASK
with NECK GUARD

BDBS-G

	Sterile
	ISO Class 4 • EU GMP Grade A Compatible
	INNER FACING LAYER: Non-woven spunbonded polyester (hygroscopic)
	FILTER LAYER: Meltblown polyester
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	NECK GUARD: Non-woven spunbonded polyester
	Ultrasonically sealed edges • Latex-free • Large breathing chamber • Low-linting • Fully enclosed nose band
	One facemask per inner bag, 20 inner bags per sealed outer bag, 10 outer bags (200 pieces) per carton

Re-order Code
BDBS-G

BDBN-G






	Non-sterile
	ISO Class 4 Compatible
	INNER FACING LAYER: Non-woven spunbonded polyester (hygroscopic)
	FILTER LAYER: Meltblown polypropylene
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	NECK GUARD: Non-woven spunbonded polyester
	Ultrasonically sealed edges • Latex-free • Large breathing chamber • Low-linting • Fully enclosed nose band
	50 facemasks per inner bag, one inner bag per sealed outer bag, six outer bags (300 pieces) per carton

Re-order Code
BDBN-G







BIOCLEAN MTA™
TIE-ON FACEMASK


MTA210-1

	Sterile
	ISO Class 4 • EU GMP Grade A Compatible
	INNER FACING LAYER: Non-woven polypropylene/polyethylene (hygroscopic)
	FILTER LAYER: Meltblown polyester
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	Ultra-low particulation • 3 ply - ultrasonic sealing • High BFE & PFE • Excellent breathability • High seam strength • Latex-free
	One piece per sealed inner PE bag; 50 inner bags per sealed outer PE bag; 10 outer bags per lined carton (500 pieces)

Re-order Code
MTA210-1

MTA

	Non-sterile
	ISO Class 4 Compatible
	INNER FACING LAYER: Non-woven polypropylene/polyethylene (hygroscopic)
	FILTER LAYER: Meltblown polypropylene
	OUTER FACING LAYER: Non-woven polypropylene/polyethylene (hydrophobic)
	Ultra-low particulation • 3 ply - ultrasonic sealing • High BFE & PFE • Excellent breathability • High seam strength • Latex-free

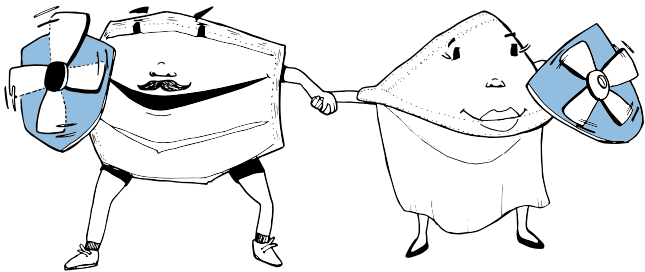
Re-order Code	Packing 
MTA210-0 (Bulk packed)	50 pieces per sealed inner PE bag; one inner bag per sealed outer PE bag; 16 outer bags per lined carton (800 pieces)
MTA210-2 (Single)	One piece per sealed inner PE bag; 50 inner bags per sealed outer PE bag; 10 outer bags per lined carton (500 pieces)

* Size subject to minimum order quantity and lead time.

Why are sterile facemasks more expensive than non-sterile ones?

This is not just because of the sterilization costs. The material used in masks to be sterilized is different from that used for the manufacture of non-sterile masks.






Non-sterile facemask material degrades when it is sterilized by gamma irradiation, seriously compromising its filtration performance. To obtain acceptable filtration performance after irradiation our sterile facemasks are made from a more expensive material which can withstand irradiation.



What is the difference between face veils and facemasks?






Facemasks provide a very efficient particle and bacterial barrier between you and the product or process. Face veils should only be worn during less critical applications as their level of protection for the products is very low.

BIOCLEAN DB™
 POUCH-STYLE FACEMASK
 BDBS

	Sterile
	ISO Class 4 • EU GMP Grade A Compatible
	INNER FACING LAYER: Non-woven spunbonded polyester (hygroscopic)
	FILTER LAYER: Meltblown polyester
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	Ultrasonically sealed edges • Latex-free • Large breathing chamber • Low-linting • Fully enclosed nose band
	One facemask per inner bag, 20 inner bags per sealed outer bag, 10 outer bags (200 pieces) per carton






Re-order Code
 BDBS

BDBN

	Non-sterile
	ISO Class 4 Compatible
	INNER FACING LAYER: Non-woven spunbonded polyester (hygroscopic)
	FILTER LAYER: Meltblown polypropylene
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	Ultrasonically sealed edges • Latex-free • Large breathing chamber • Low-linting • Fully enclosed nose band
	50 facemasks per inner bag, one inner bag per sealed outer bag, six outer bags (300 pieces) per carton

Re-order Code
 BDBN

BIOCLEAN CLEARVIEW™ LOOPED OR TIE-ON VISOR
 FACEMASK / VFM

	Sterile
	ISO Class 4 & EU GMP Grade A Compatible
	INNER FACING LAYER: Non-woven spunbonded polyester (hygroscopic)
	FILTER LAYER: Meltblown polyester
	OUTER FACING LAYER: Non-woven spunbonded polyester (hydrophobic)
	High bacterial & particle filtration efficiency • Looped or tie-on • Optically clear • Distortion-free anti-fog visor • Latex free
	One piece per inner bag • 25 inner bags per outer bag • four outer bags (100 pieces) per carton

Re-order Code	Item
VFM210-L	Looped
VFM210-T-SLOT	Tie-on/Slot



WIPES

The BioClean™ range of wipes is available in a selection of sizes, a variety of materials and both sterile and non-sterile. BioClean wipes are durable with excellent absorption properties, high strength and some have ultrasonically cut and sealed edges for ultra-low particulation.

Quality Systems & Testing

Our wipes are manufactured and processed in a certified ISO Class 4 or 5 cleanroom environment. All wipes have been extensively tested, with physical and particle results available on request.

Materials & Packing

Available in a selection of material compositions, BioClean wipes are double bagged in non-particulating packaging making them easy to open and avoiding the introduction of particles into the cleanroom.

Bespoke Sizes & Configurations






We are able to offer bespoke wipe sizes and packaging configurations, please contact us with the details and we will endeavour to provide the wipes to meet your requirements.



What test should I look for when choosing a wipe?

BioClean wipes are tested using test methods IEST-RP-CC003.3 for Helmke Drum test and IEST-RP-CC004.3 for the NVR, extractables, absorption capacity and absorption rate.

BIOCLEAR ORYX™ POLYCELLULOSE WIPE BOWS & BOWB






	Sterile & Non-sterile
	ISO Class 5 Compatible
	Non-woven hydroentangled polycellulose
	68gsm
	Low-linting • Outstanding absorption • No optical brighteners or whitening agents

Re-order Code Sterile	Size	Packing	Fold
BOWS-9	230mm x 230mm (9" x 9")	27 bags of 10 packs each containing 10 wipes (2700 wipes) per carton	C-Fold
BOWS-9B	230mm x 230mm (9" x 9")	Eight bags of 300 wipes (2400 wipes) per carton	Flat
BOWS-12	300mm x 300mm (12" x 12")	18 bags of 10 packs each containing 10 wipes (1800 wipes) per carton	C-Fold
BOWS-18V	450mm x 450mm (18" x 18")	100 pieces per bag, five outer bags (500 pieces) per carton	V-Fold
Non-Sterile			
BOWB-9	230mm x 230mm (9" x 9")	300 wipes per double bag, eight outer bags (2400 wipes) per carton	Flat
BOWB-12	300mm x 300mm (12" x 12")	150 wipes per double bag, 14 outer bags (2100 wipes) per carton	Flat
BOWB-16*	400mm x 400mm (16" x 16")	100 wipes per double bag, 10 outer bags (1000 wipes) per carton	Flat
BOWB-18*	450mm x 450mm (18" x 18")	100 wipes per double bag, 10 outer bags (1000 wipes) per carton	Flat

*Size subject to minimum order quantity and lead time.



1. BIOCLEAR ISOPURE PLUS™ POLYESTER WIPE S-BIWP & BIWP

	Sterile & Non-sterile
	ISO Class 4 & EU GMP Grade A Compatible (Sterile) ISO Class 4 Compatible (Non-Sterile)
	Double-knit 100% continuous-filament polyester
	130gsm
	Excellent absorption properties • Durable & strong • Ultrasonically cut & sealed edges • Latex free

Re-order Code	Size	Packing
S-BIWP-9 (Sterile)	230mm x 230mm (9" x 9")	10 bags of 10 packs each containing 10 wipes (1000 wipes) per carton
BIWP-9 (Non-sterile)	230mm x 230mm (9" x 9")	100 wipes per double bag, 10 outer bags (1000 wipes) per carton



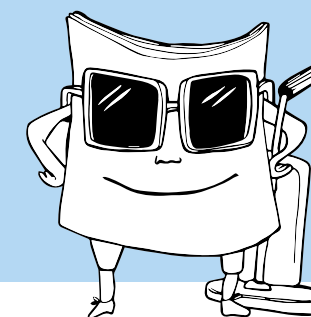
What are the wipes' absorption rates?

The absorption rate of BioClean wipes varies per product. Please see individual product data sheets for the respective absorption rates.








What is the shelf life of BioClean wipes?

BioClean wipes have a shelf life of five years from date of manufacture. The expiry date is located on each pack and on the carton label.








2. BIOCLEAR POLYSORBRA™ WIPE / BPSW

	Sterile
	ISO Class 5 Compatible
	Polyurethane foam inside a stitched polyester cover
	29 gsm
	Polyurethane foam • Low-linting • Excellent absorption properties • Suitable for all surfaces • Low-linting

Re-order Code	Size	Packing
BPSW	200mm x 230mm x 12mm (8" x 9" x 0.47")	Individually packed in PE bag, 100 wipes per carton



BIOCLEAR DUAL™
DISPOSABLE PP/CPE
OVERSHOES
S-BDOS






	Sterile
	ISO Class 4 Compatible
	Top: Spunbonded non-woven polypropylene fabric Sole: Embossed cast polyethylene film
	Slip-resistant sole • Practical & durable • Latex-free elastic • Low-linting
	One pair per sealed inner PE bag; 15 inner bags per sealed outer PE bag; 10 outer bags per lined carton (150 pairs)

Re-order Code	Size	Colour
S-BDOS	16" (400mm)	White

OVER
SHOES








BIOCLEAR DURABLEU™ OVERBOOTS / BDBL-16

	Non-sterile
	Non-critical environments
	Non-woven spunbonded polypropylene • Cast polyethylene laminate
	Resists tears, rips and abrasions • Low levels of particle shedding • Resistant to a wide range of liquid chemicals • High tensile strength • Slip-resistant • Elastomer coating
	50 pieces per sealed bag, eight bags (400 pieces) per carton

Re-order Code	Size
BDBL-16	XL








BIOCLEAR DURABLEU™ OVERSHOES / BDBO

	Non-sterile
	Non-critical environments
	Non-woven spunbonded polypropylene (38gsm) • Cast polyethylene laminate (64gsm)
	Resists tears, rips and abrasions • Low levels of particle shedding • Resistant to a wide range of liquid chemicals • High tensile strength • Slip-resistant • Elastomer coating
	50 pieces per sealed inner PE bag; one inner bag per sealed outer PE bag; eight outer bags per lined carton (400 pieces)

Re-order Code	Size	Colour
BDBO-14	14" (356mm)	Blue
BDBO-16	16" (400mm)	Blue
BDBO-18	18" (457mm)	Blue






BIOCLEAR CPE™ DISPOSABLE OVERSHOES
CPE & S-CPE

	Sterile & Non-sterile
	Non-critical environments
	Cast polyethylene
	Low levels of particle shedding • Ultrasonically cut & sealed edges
	Sterile: One pair per inner bag, 10 inner bags per outer bag, 15 outer bags (150 pairs) per carton Non-Sterile: 100 pieces per sealed bag; 20 bags (2000 pieces) per carton

Re-order Code	Size
S-CPE (Sterile)	16" (400mm)
CPE (Non-Sterile)	16" (400mm)








BIOCLEAR SAFESTEP NSO™ OVERSHOES / NSO

	Non-sterile
	ISO Class 5 Compatible
	Elastomer coating over non-woven spunbonded polypropylene
	Slip-resistant • Durable • Low levels of particle shedding
	100 Pieces per sealed bag, four bags (400 pieces) per carton

Re-order Code	Size	Colour
NSO016	16" (400mm)	White
NSO018	18" (457mm)	White








BIOCLEAR ESD™ OVERSHOES WITH CONDUCTIVE TAPE / ESD

	Non-sterile
	ISO Class 5 Compatible
	Shoe: non-woven spunbonded Polypropylene Tape: Polyester filament yarn (96%) with conductive nylon carbon filament yarn (4%)
	Non-marking conductive tape provides excellent dissipative properties • Low levels of particle shedding
	100 pieces per sealed inner PE bag; one inner bag per sealed outer PE bag; 10 outer bags per lined carton (1000 pieces)

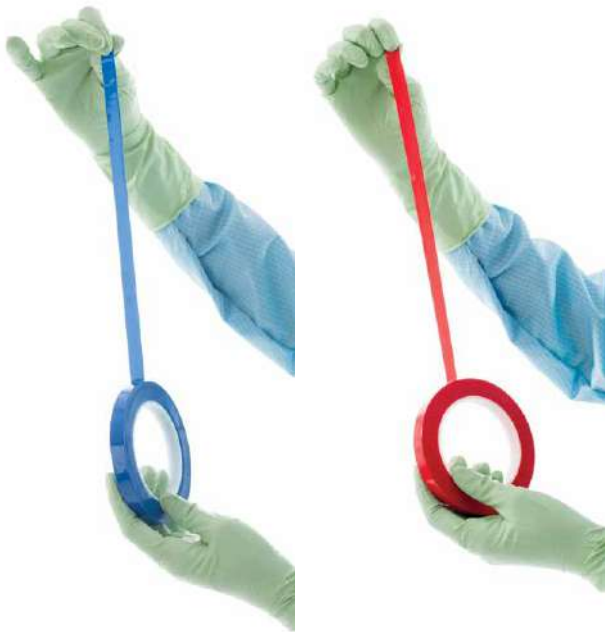
Re-order Code	Size	Colour
ESD016W	16" (400mm)	White
ESD018W	18" (457mm)	White
ESD018B	18" (457mm)	Blue



BIOCLEAR SLIP-RESISTANT ESD™ OVERSHOES BESD







	Non-sterile
	ISO Class 5 Compatible
	Shoe: Elastomer impregnated polypropylene Tape: Polyester filament yarn (96%) with conductive nylon carbon filament yarn (4%)
	Slip-resistant • Non-marking conductive tape provides excellent dissipative properties • Elastomer coated for durability • Low levels of particle shedding
	100 pieces per sealed inner PE bag; one inner bag per outer PE bag; four outer bags per lined carton (400 pieces)

Re-order Code	Size	Colour
BESD016W	16" (400mm)	White



ACCESSORIES

BIOCLEAR™
CLEANROOM TAPE
S-BVCT

	Sterile
	ISO Class 4 Compatible
	Vinyl with PET Laminate
	White • Blue • Green • Red • Yellow
	Adhesive force (g/25mm): 800g/25mm • Good abrasion resistance • Excellent durability
	One roll per sealed inner PE bag; one inner bag per sealed outer PE bag; 30 outer bags per lined carton (30 rolls) (Excl. S-BVCT3W - one roll per sealed bag, 12 rolls per carton)

Re-order Code	Size	Colour
S-BVCT1W	White	25mm x 33m
S-BVCT2W	White	12.5mm x 33m
S-BVCT3W*	White	50mm x 33m
S-BVCT2B	Blue	12.5mm x 33m
S-BVCT2G	Green	12.5mm x 33m
S-BVCT2R	Red	12.5mm x 33m
S-BVCT2Y	Yellow	12.5mm x 33m

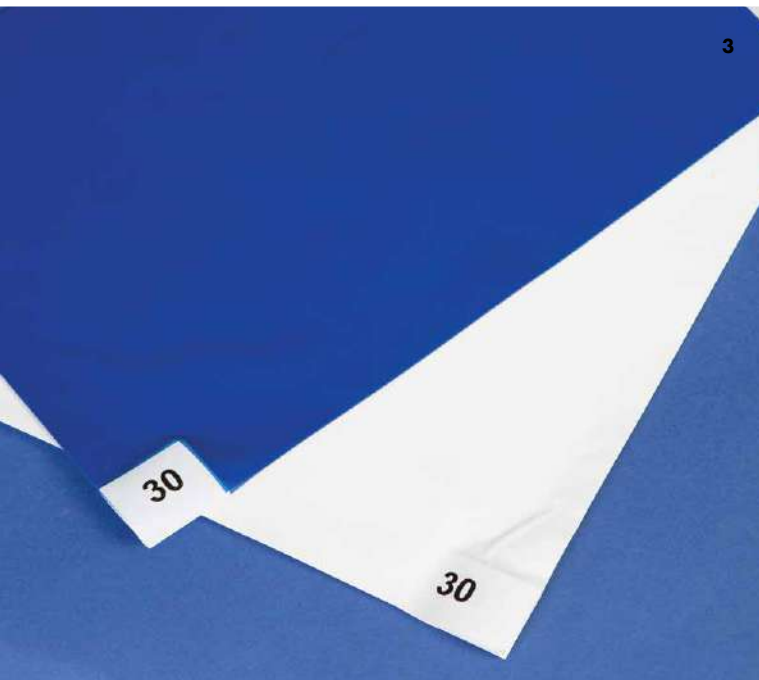
*Packing - One roll per sealed bag, 12 rolls per carton



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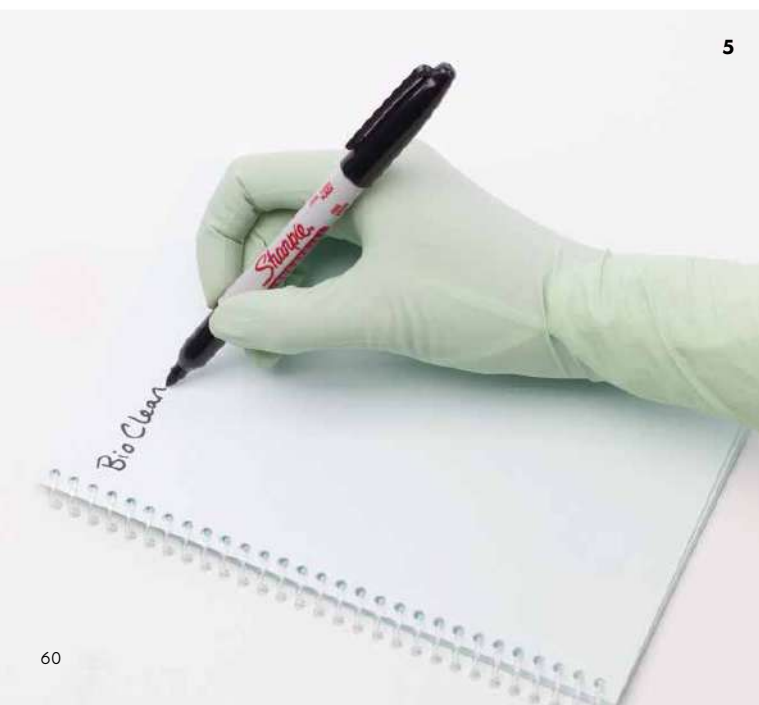
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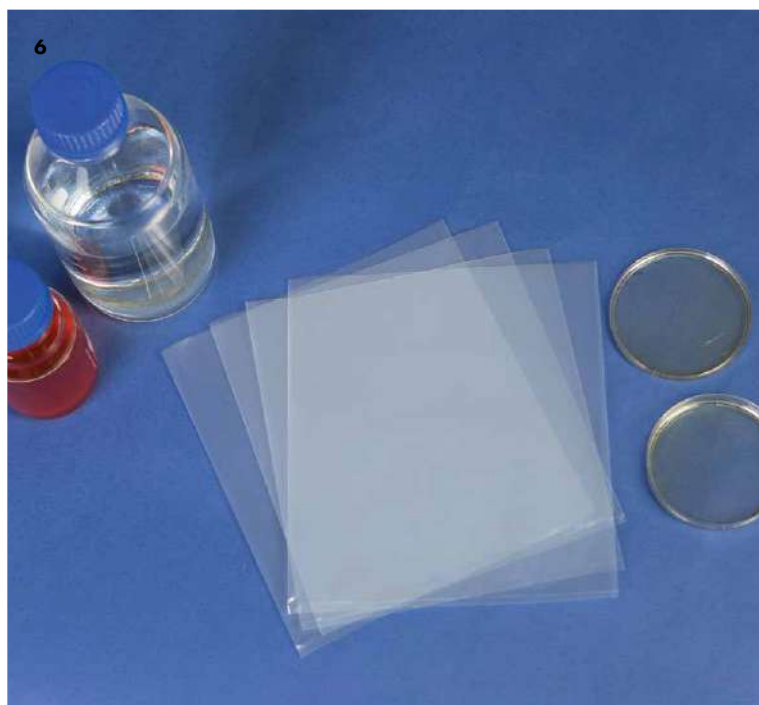
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5



6

1. BIOCLEAR™ BBC CLEANROOM BOUFFANT CAP / BBC

	Non-sterile
	Non-critical environment
	Spunbond polypropylene
	White or Blue
	Lightweight • Latex-free elastic • Universal size
	100 pieces per sealed inner PE bag; 10 inner bags per sealed outer PE bag; one outer bag per lined carton (1000 pieces)

Re-order Code	Colour
BBC-W	White
BBC-B	Blue

2. BIOCLEAR™ PERMAFLOW™ IRRADIATED CLEANROOM BALLPOINT PEN / S-BPBP-1

	Sterile
	ISO Class 4 Compatible
	Polypropylene barrel and lid
	Blue or Black permanent ink
	Alcohol resistant labelling • Fade and water resistant • Quick drying • Non-toxic
	One pen per inner PE bag; three pens per sealed outer PE bag; 100 outer PE bags per lined carton (300 pens)

Re-order Code	Colour
S-BPBP-1-BK	Black Ink
S-BPBP-1-BL	Blue Ink

3. BIOCLEAR™ SUPATAC™ TACKY MATS / STB & STW

	Non-sterile
	ISO Class 5 Compatible
	Low density polyethylene with anti-bacterial finish
	Blue or White
	30 numbered layers • Anti-bacterial water based acrylic adhesive • Available in variety of sizes
	Four mats (each with 30 numbered layers) per lined carton

Re-order Code	Size	Colour
STB1845	18" x 45"	Blue
STB2645	26" x 45"	Blue
STB3645	36" x 45"	Blue
STW1845	18" x 45"	White
STW2645	26" x 45"	White
STW3645	36" x 45"	White

4. BIOCLEAR™ PHARMA COVER™ / BPC

	Non-sterile (Sterile version available)
	ISO Class 4 Compatible
	Tyvek® material and high quality elastic
	White
	Breathable microbial barrier • Latex-free elastic provides secure seal • Lint-free • Moisture and puncture resistant • Form fitted • Fast drying time • Easy to apply and remove
	Autoclavable at 121°C to 127°C
	See datasheet on www.BioClean.com

Re-order code	Size (cm)	Re-order code	Size (cm)
BPC-05	5 (2.0")Ø	BPC-51	51 (20.0")Ø
BPC-8	8 (3.1")Ø	BPC-61	61 (20.0")Ø
BPC-10	10 (3.9")Ø	BPC-76	76 (29.9")Ø
BPC-13	13 (5.1")Ø	BPC-91	91 (35.8")Ø
BPC-18	18 (7.0")Ø	BPC-122	122 (45.0")Ø
BPC-23	23 (9.0")Ø	BPC-152	152 (59.8")Ø
BPC-30	30 (11.8")Ø	BPC-183	183 (72.0")Ø
BPC-41	41 (16.1")Ø	BPC-229	229 (90.0")Ø

5. BIOCLEAR™ PERMAFLOW™ CLEANROOM PEN / S-BPFP



























	Sterile
	ISO Class 4 & EU GMP Grade A Compatible
	Plastic barrel and lid
	Black, blue or red permanent ink
	Autoseal ink prevents drying • Alcohol resistant labelling • Fade and water resistant • Quick drying • Non-toxic
	One pen per sealed inner PE bag; 10 inner bags per sealed outer PE bag; 20 outer bags per lined carton (200 pens)

Re-order Code	Colour
S-BPFP-BK	Black Ink
S-BPFP-BL	Blue Ink
S-BPFP-RD	Red Ink

6. BIOCLEAR™ STERILE BAGS / S-BBPN

	Sterile
	ISO Class 4 Compatible
	Polythene
	Clear
	Ultraclean & low-density • Additive-free material • Double bagged • Range of sizes & thicknesses
	See datasheet on www.BioClean.com
	Minimum order quantity (MOQ) 2000 bags
	Range of sizes available See datasheet on www.BioClean.com

ICON LEGEND

	LENGTH		CONSTRUCTION
	COLOUR		ACCELERATOR FREE
	DOUBLE-DONNABLE		PORT SIZE
	HAND SPECIFIC		STANDARDS COMPLIES WITH
	AMBIDEXTROUS		FEATURES
	INFORMATION		PPE CATEGORY
	MATERIAL		AUTOCLAVABLE
	STERILITY		UPPER VENTS
	ANTISTATIC		INDIRECT LOWER VENTS
	STANDARD TESTED TO		INDIRECT VENTILATION SYSTEM
	ISO CLASS 4		WEIGHT
	ISO CLASS 5		PACKING
	ISO CLASS 6		NON-CRITICAL ENVIRONMENT

GARMENT SIZING

BIOCLEAN-D™ SIZING

Size	Chest	Height
X-Small	76-84cm (30"- 33")	158-164cm (5'2"- 5'4")
Small	84-92cm (33"- 36")	164-170cm (5'4"- 5'6")
Medium	92-100cm (36"- 39")	170-176cm (5'6"- 5'9")
Large	100-108cm (39"- 42")	176-182cm (5'9"- 6'0")
X-Large	108-116cm (42"- 45")	182-188cm (6'0"- 6'2")
XX-Large	116-124cm (45"- 48")	188-194cm (6'2"- 6'4")
XXX-Large	124-132cm (48"- 51")	194-200cm (6'4"- 6'6")
XXXX-Large	132-140cm (51"- 54")	200-206cm (6'6"- 6'8")

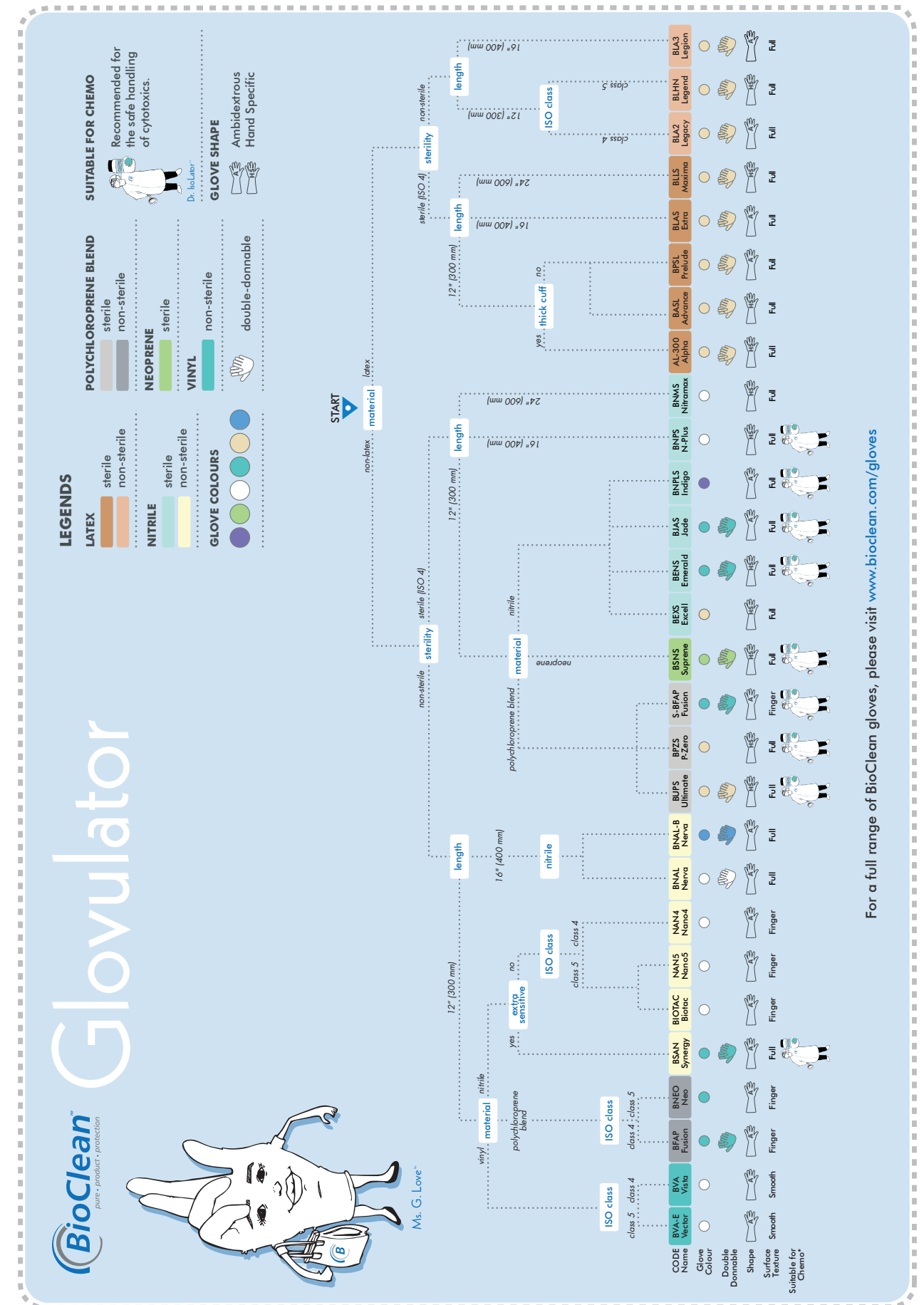
BIOCLEAN-C™ SIZING

Size	Chest	Height
Small	84-92cm (33"- 36")	164-170cm (5'4"- 5'6")
Medium	92-100cm (36"- 39")	170-176cm (5'6"- 5'9")
Large	100-108cm (39"- 42")	176-182cm (5'9"- 6'0")
X-Large	108-116cm (42"- 45")	182-188cm (6'0"- 6'2")

All information stated in this catalogue is correct at time of printing and maybe subject to change without notice.

WWW.BIOCLEAN.COM

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