



BIOCLEAN
CLEANROOM PRODUCTS

Edition 2 January 2015



- Gloves
- Goggles
- Accessories
- Facemasks & Veils
- Reusable Garments
- Chemo Safety Wear
- Disposable Garments



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from Nitritex

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- Disposable Garments

TABLE OF CONTENTS

GENERAL INFORMATION		Pg
About BioClean™		6
Company Timeline		8
Our Ranges		10
Cleanroom Consumable Selection Criteria, Quality Systems, Cleanroom Classification		12
BioClean: The Brand		14
Factory Tour		16
GLOVES		Pg
About BioClean™ Gloves		20
FAQs		21
About BioClean Chemotherapy Gloves		22
About BioClean BarrierPlus™ Gauntlets		22
STERILE LATEX GLOVES		
BioClean Alpha™	AL300	24
BioClean Extra™	BLAS	24
BioClean Maxima™	BLLS	24
BioClean Advance™	BASL	25
STERILE NITRILE GLOVES		
BioClean Emerald™	BENS	26
BioClean N-Plus™	BNPS	26
BioClean Nitramax™	BNMS	26
BioClean Excell™	BEXS	27
STERILE NEOPRENE GLOVES		
BioClean Suprene™	BSNS	28
STERILE POLYCHLOROPRENE GLOVES		
BioClean Fusion™	S-BFAP	29
BioClean P-Zero™	BPZS	29
BioClean Ultimate™	BUPS	30
STERILE NYLON GLOVES		
BioClean Halfingers™	S-BGHF	30
NON-STERILE LATEX GLOVES		
BioClean Legion™	BLA3	32
BioClean Legacy™	BLA2	33
NON-STERILE NITRILE GLOVES		
BioClean Biotac™	BIOTAC	34
BioClean Tiso™	BTAN	34
BioClean Nerva™	BNAL	34
BioClean Nano 5™	NAN5	35
NON-STERILE VINYL GLOVES		
BioClean Vista™	BVA	36
BioClean Vector™	BVA-E	36
NON-STERILE POLYCHLOROPRENE GLOVES		
BioClean Fusion™	BFAP	37
DISPOSABLE GARMENTS		Pg
About BioClean-D™ Disposable Garments		41
FAQs		42

STERILE DISPOSABLE GARMENTS

BioClean-D™ Sterile Drop-down Garment with Hood	S-BDSH	44
BioClean-D™ Sterile Coverall with Hood and Intergrated Boots	S-BDFC	45
BioClean-D™ Sterile Coverall with Hood	S-BDCHT	46
BioClean-D™ Sterile Coverall with Collar	S-BDCCT	47
BioClean-D™ Sterile Lab Coat	S-BDLC	47
BioClean-D™ Sterile Hood	S-BDHD	48
BioClean-D™ Sterile Sleeve Covers	S-BDSC-L	48
BioClean-D™ Sterile Overboots	S-BDOB	48

NON-STERILE DISPOSABLE GARMENTS

BioClean-D™ Non-Sterile Coverall with Collar	BDCCT	50
BioClean-D™ Non-Sterile Coverall with Hood	BDCHT	51
BioClean-D™ Non-Sterile Lab Coat	BDLC	52
BioClean-D™ Non-Sterile Visitor Coat	BHVC	52
BioClean-D™ Non-Sterile Hood	BDHD	53
BioClean-D™ Non-Sterile Sleeve Covers	BDSC-L	53
BioClean-D™ Non-Sterile Overboots	BDOB	53

FACEMASKS

Pg

About BioClean™ Facemasks		57
FAQs		58

STERILE FACEMASKS

BioClean DB™ Sterile Pouch-Style Facemask	BDBS	60
BioClean DB™ Sterile Pouch-Style Facemask with Neck Guard	BDBS-G	60
BioClean Clearview™ Sterile Looped or Tie-On Visor Facemask	VFM	61
BioClean MEA™ Sterile Looped Facemask	MEA210-1	62
BioClean MTA™ Sterile Tie-On Facemask	MTA210-1	62

NON-STERILE FACEMASKS

BioClean DB™ Non-Sterile Pouch Style Facemask	BDBN	64
BioClean DB™ Non-Sterile Pouch Style Facemask with Neck Guard	BDBN-G	64
BioClean MEA™ Non-Sterile Looped Facemask	MEA	65
BioClean MTA™ Non-Sterile Tie-On Facemask	MTA	65

NON-STERILE FACE VEILS

BioClean Microflow™ Non-Sterile Face Veil with Headloop	BFV05	66
BioClean Microflow™ Non-Sterile Face Veil with Studs	BFV06	67

GOGGLES

Pg

About BioClean Clearview™ Goggles		71
About BioClean Clearview™ Single Use Sterile Goggles		71
About BioClean Clearview™ Autoclavable Goggles		72
FAQs		72

STERILE GOGGLES

BioClean Clearview™ Sterile Single Use Goggles (ETO)	BCGS1	74
BioClean Vijn™ Sterile Single Use Goggles (Gamma)	BVGS	74

AUTOCLAVABLE GOGGLES

BioClean Clearview™ Autoclavable Panoramic Goggles	BCAP	75
BioClean Clearview™ Autoclavable Goggles	BCAH	75
BioClean Clearview™ Autoclavable Goggles	BCAG	75

REUSABLE GARMENTS		Pg
About BioClean-R™ Reusable Garments		79
FAQs		79
Fabric Specification		80-82
Cleanroom Classification Standards		83
REUSABLE GARMENTS		
BioClean-R™ Coverall	STC001	84
BioClean-R™ Coveral	STC002	85
BioClean-R™ Coveral	STC003	86
BioClean-R™ Hood	STH002	87
BioClean-R™ Hood	STH002-S	88
BioClean-R™ YASHMAK	YASH01	88
BioClean-R™ Hood	STH003	89
BioClean-R™ Hood	STH005	89
BioClean-R™ Tunic	NTU001	90
BioClean-R™ Tunic	NTU002	91
BioClean-R™ Tunic	NTU003	91
BioClean-R™ Trousers	NTR001	92
BioClean-R™ Trousers	NTR002	92
BioClean-R™ Classic Coat	CLC001	93
BioClean-R™ Albany Coat	ALB001	94
BioClean-R™ Moonshot Coat	MOC001	95
BioClean-R™ Overboots	STO001	96
BioClean-R™ Overboots	STO015	97
BioClean-R™ Overboots	STO022	97
BioClean-R™ Overboots	STO013	98
BioClean-R™ Overshoes	SKO001	99
BioClean-R™ Overshoes	SKO002	99
CHEMO SAFETY WEAR		Pg
About BioClean™ Chemo Safety Wear		103
Quality Systems & Testing		104
STERILE CHEMO SAFETY WEAR		
BioClean Suprene™	BSNS	107
BioClean Emerald™	BENS	108
BioClean N-Plus™	BNPS	109
BioClean P-Zero™	BPZS	109
BioClean Ultimate™	BUPS	110
BioClean Fusion™	S-BFAP	110
BioClean DB™ Sterile Pouch-Style Facemask with Neck Guard	DBBS-G	111
BioClean DB™ Sterile Pouch-Style Facemask	DBBS	111
BioClean-C™ Sterile Chemotherapy Protective Apron with Sleeves	S-BCAS	112
BioClean-C™ Sterile Chemotherapy Protective Apron - Sleeveless	S-BCDA	113
BioClean-C™ Sterile Chemotherapy Protective Sleeve Cover	S-BCSC	113
BioClean-D™ Sterile Coverall with Collar	S-BDCCT	114
BioClean-D™ Sterile Hood	S-BDHD	115
BioClean-D™ Sterile Overboots	S-BDOB	115
BioClean-D™ Sterile Coverall with Hood	S-BDCHT	116
BioClean Clearview™ Sterile Single Use Goggles	BCGS1	117
BioClean Chemprep™ Sterile Prep Mat	S-BCPM	117
NON-STERILE CHEMO SAFETY WEAR		
BioClean Fusion™	BFAP	119
BioClean Synergy™	BSAN	119
BioClean-C™ Non-Sterile Chemotherapy Protective Apron with Sleeves	BCAS	120
BioClean-C™ Non-Sterile Chemotherapy Protective Apron - Sleeveless	BCDA	121
BioClean-C™ Non-Sterile Chemotherapy Protective Sleeve Cover	BCSC	121
BioClean-D™ Non-Sterile Coverall with Collar	BDCCT	122

BioClean-D™ Non-Sterile Hood	BDHD	123
BioClean-D™ Non-Sterile Overboots	BDOB	123
BioClean-D™ Non-Sterile Coverall with Hood	BDCHT	124
BioClean Clearview™ Autoclavable Goggles	BCAG	125
BioClean Clearview™ Autoclavable Panoramic Goggles	BCAP	125

ACCESSORIES

Pg

BioClean Steele™ Steel Toecap Shoes	BSTC	128
BioClean Durable™ Overboots	BDBL-16	129
BioClean Durable™ Overshoes	BDBO	130
BioClean CPE™ Sterile Disposable Overshoes	S-CPE	130
BioClean Safestep ESD™ Overshoes	BESD	131
BioClean ESD™ Overshoes with Conductive Tape	ESD	131
BioClean Safestep NSO™ Overshoes	NSO	131
BioClean Notebooks™	BNBC	132
BioClean ISOLeaf™ Cleanroom Bond Paper	BICP	132
BioClean Amphora™ Cleanroom Bottles	BACB	132
BioClean™ BBC Cleanroom Bouffant Cap	BBC	132
BioClean Supatac™ Tacky Mats	STB/STW	133
BioClean Permaflow™ Sterile Cleanroom Pen	S-BPFP	133
BioClean Clearview™ Autoclavable Goggles Lens	BCAG-SL & BCAA-SL	133
BioClean™ Sterile Anti-Fog Spray	BAFS	133
BioClean Clearview™ Autoclavable Goggles Lens	BCAP-SL	134
BioClean™ Sterile Vinyl Cleanroom Tape	S-BVCT	134
BioClean Beard Snood™	NH8BS	134
BioClean Stretchee™ Cleanroom Polyisoprene Bands	BSPB	135
BioClean™ Sterile Bags	S-BBPN-1	135
BioClean™ Cleanroom LDPE Antistatic Bags	CRASBAGS85x100	135

CONTACT US

Pg

Our Offices	136
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The extensive range of high quality cleanroom consumables and reusables under the BioClean brand are used in 73 countries and supplied through an established global network of highly professional distribution partners. Time after time, our reputation as a high quality brand of cleanroom products is demonstrated by our ability to deliver innovative solutions to meet the most exacting and bespoke requirements for controlled and critical environments. Our distribution partners are supported by our Head Office in the UK and our regional sales offices in North America and South East Asia.

About

BioClean™ - Serving the Cleanroom Industry since 1996

We are in total control of the entire manufacturing process. With our rigorous ISO and EN Quality Systems, our consistently high standards provide peace of mind to our customers, with all products processed and packed in our ISO Class 4 & 5 cleanrooms.

Our BioClean cleanroom gloves comprise the largest range available worldwide under one brand. These include sterile and non-sterile versions in latex, nitrile, polychloroprene, Neoprene and vinyl, in a variety of lengths, colours and finishes.

In addition to our world-class cleanroom gloves, our BioClean brand encompasses disposable and reusable garments, goggles, facemasks, veils, wipes, overshoes, paper, tacky mats and a range of other accessories.

Company Timeline



DEREK WATTS
incorporates
Nitritex Ltd

1996

BioClean products
selling into
11 countries

1998

2000

Nitritex expands and moves
to dedicated offices and
warehouse in Newmarket, UK

Introduction of 600mm (24")
BioClean Maxima™ sterile
latex cleanroom gloves

Nitritex sales office and
warehouse open
in Toronto, Canada



Nitritex opens sales
office in Singapore
to manage South
East Asia sales

Introduction of
400mm (16") sterile
and non-sterile
BioClean Extra™
latex cleanroom
gloves

2001

2002



Nitritex opens a
representative office in
Shanghai to manage
activity in China

Nitritex opens a
state-of-the-art
ISO Class 4 cleanroom
processing facility in
Malaysia

Introduction of a range
of sterile and non-sterile
cleanroom flat facemasks

BioClean products
selling into 32
countries

Nitritex expands
product range and
sets up a dedicated
cleanroom
reusable garment
manufacturing
facility in Singapore

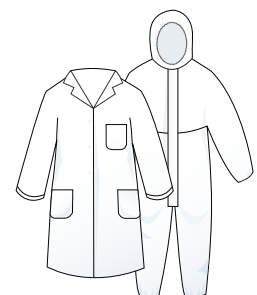
Introduction of
400mm (16")
BioClean N-Plus™
and BioClean
Nerva™ sterile and
non-sterile nitrile
cleanroom gloves

2003

2004

Introduction of 600mm
(24") sterile BioClean
Nitramax™ nitrile
cleanroom gloves

BioClean-D™
disposable garment
range is developed and
offered in sterile and
non-sterile formats



Introduction of sterile pouch-style
facemask, the BioClean DB™

Introduction of Clearview™ visor
facemask, the BioClean VFM™

Introduction of a range of
BioClean™ sterile and non-sterile
polychloroprene gloves

BioClean products selling
into 43 countries

2005

Launch of a complete range of BioClean™ non-latex gloves conforming to the ASTM D6978-05 standard to meet the demands of the cytotoxic market

Introduction of the first fully validated sterile single use goggles – BioClean Clearview™ for the pharmaceutical and cleanroom market

BioClean-C™ Chemotherapy Safety Wear range is launched

Reusable autoclavable goggles – BioClean Clearview™ are developed to meet the requirements of the pharmaceutical manufacturers



Construction of a brand new ISO Class 4 & 5 cleanroom processing facility in Kuala Lumpur



Introduction of BioClean BarrierPlus™ range of sterile gauntlets and sleeves

Our first 100% Neoprene glove, the BioClean Supreme™ is launched for the pharmaceutical and chemotherapy markets

BioClean products selling into 63 countries

2007

2009

2013

2008

2010

2011

2014



A direct sales force is employed to support the UK market

Nitritex sales office opens in San Juan, Puerto Rico

BioClean IsoPure™ and Oryx™ ISO Class 4 & 5 compatible cleanroom wipes are introduced

BioClean products selling into 50 countries



A warehouse is set up in North Carolina to service the US market and Puerto Rico

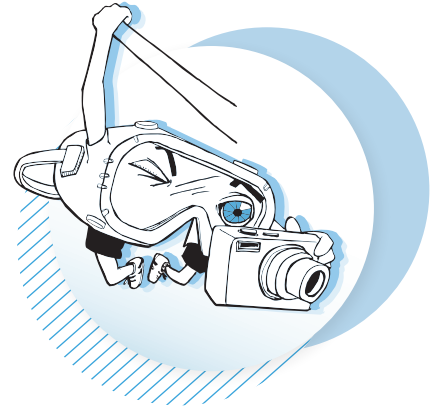
CLEANROOM BUYER™ web shop is created to service UK end users



A complete re branding of BioClean commences, creating Billy BioClean™ and the Magnificent 7™ characters

Six animated educational BioClean product videos launched

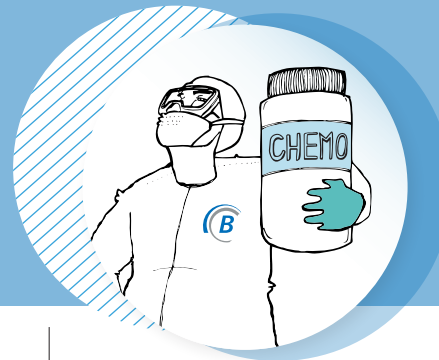
Our Ranges



1

Billy BioClean™ the King of Disposable Garments...

BioClean-D™ garments are specially designed and manufactured from lightweight, low-linting, durable 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 ensures 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 Restrict 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™ chemotherapy range provides full head-to-toe coverage in various combinations of coveralls, goggles, hoods, facemasks, overboots, sleeve covers, aprons and gloves, and is available in both sterile and non-sterile to suit all controlled environments. BioClean-D™ garments provide the base protection layer. BioClean-C chemotherapy aprons and sleeve covers provide additional 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™

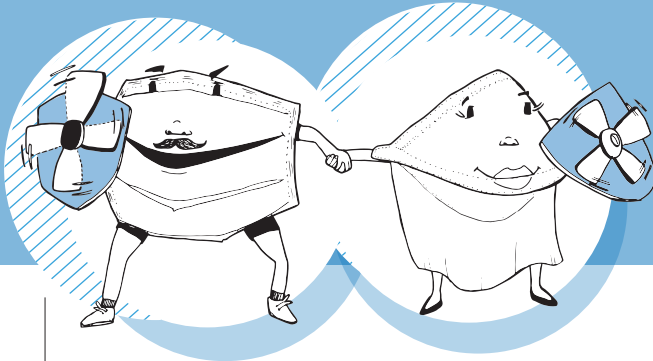
Clearly Focused on Product Protection...

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

René 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

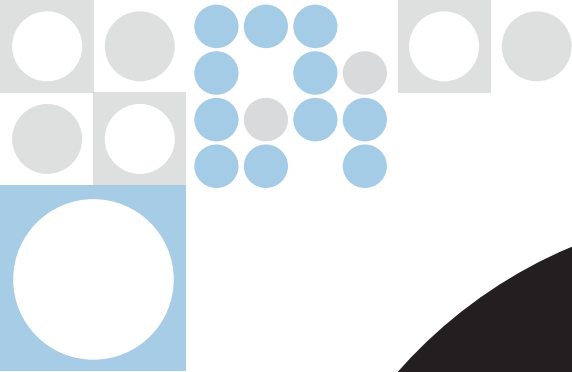
Mr. & Mrs. Phil Trayshon™ the Ultra-Clean Face Coverage Team ...

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 EN374 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. Both our UK Head Office 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 3,520 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.

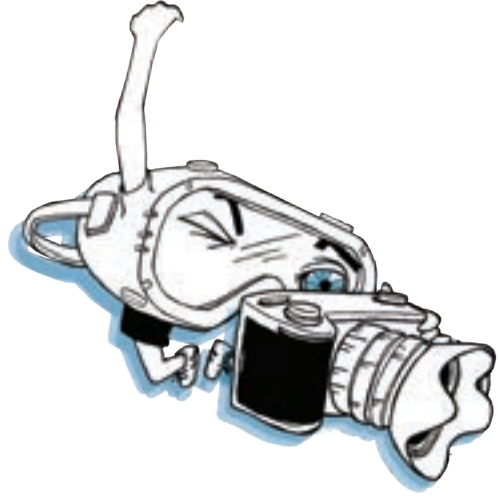
ISO classification number (N)	Maximum allowable concentrations (particles/m ³) for particles equal to and greater than the considered sizes shown below						FED-STD-209E
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm	
ISO Class 1	10						
ISO Class 2	100	24	10				
ISO Class 3	1,000	237	102	35			Class 1
ISO 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

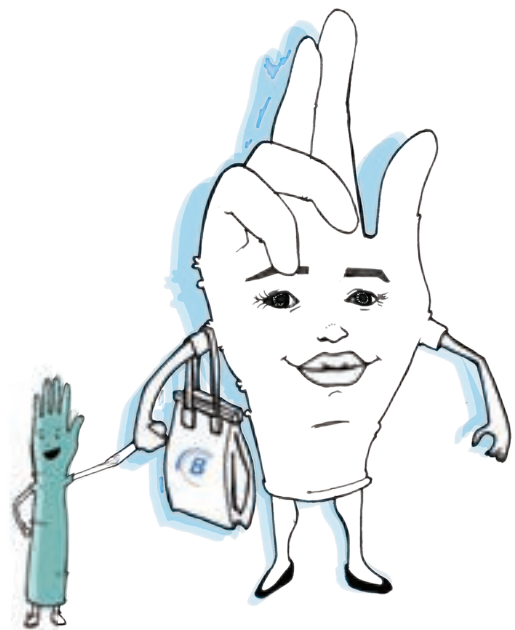


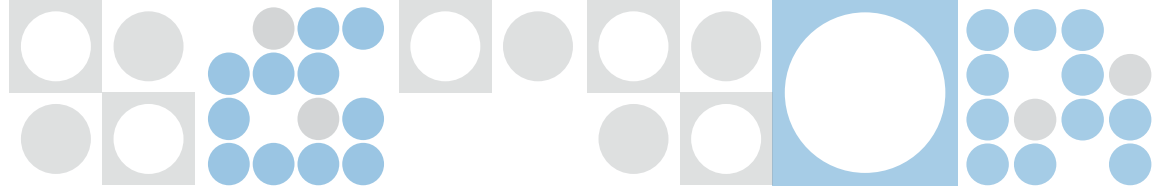


THE BRAND

BioClean™ products are widely used in the pharmaceutical, life sciences, and microelectronics industries where contamination control is the greatest concern.

BioClean Magnificent 7™ is our cleanroom team that keeps your products and processes protected. Each of the BioClean Magnificent 7 is a product champion in their own right, offering ISO Class 4 (Class 10) or ISO Class 5 (Class 100) compatibility and full validation.





BioClean's Magnificent 7™



FACTORY TOUR

The processing of BioClean cleanroom products takes place in our manufacturing base in Kuala Lumpur, Malaysia, where we employ 170 staff. Let's take a tour of BioClean facility and see where the products are processed.

One of our supervisors monitoring the ISO Class 4 (Class 10) cleanroom team. Each cleanroom team has at least three Good Manufacturing Practice (GMP) trained supervisors per shift to ensure quality, efficiency and cleanliness targets are met.



Operators in our changing room, suiting-up before entering the cleanrooms. Our garment donning procedure and pre-check list are the most stringent in the processing industry.



Before entering the cleanroom, each operator must pass from the changing area through a high powered air shower to ensure that any loose contaminants are removed.





Inside our state-of-the-art ISO Class 4 (Class10) cleanroom, our GMP trained operators are packing BioClean products. Our cleanroom is certified annually by NEBB and has over 550 complete changes of air per hour.



Fully certified and calibrated ionic and anionic test units tabulate and report all key results. Our lab uses only top of the range equipment to ensure accuracy.



A section of our UV-filtered water treatment plant which supplies 18 Megohm deionised water used for washing BioClean products.

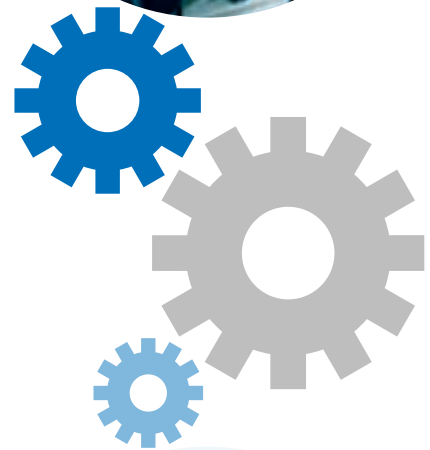


Here we see operators in our ISO Class 4 (Class 10) washer/dryer section. We have a monthly wash, dry and pack capacity of over 25 million cleanroom gloves!

A section of the bank of washers and dryers that feed our cleanrooms. The air intake of each dryer is fitted with a High Efficiency Particle Air (HEPA) filter rated 99.99% efficient with particles 0.3 microns and larger in diameter.



Inside the laboratory one of our technicians conducts Liquid Particle Count (LPC) batch testing on our cleanroom gloves. Testing is carried out under an ISO Class 4 (Class 10) laminar flow hood to ensure the samples do not become contaminated.



All BioClean products are stored in our warehouse which is closely monitored to maintain consistent temperature and humidity parameters.

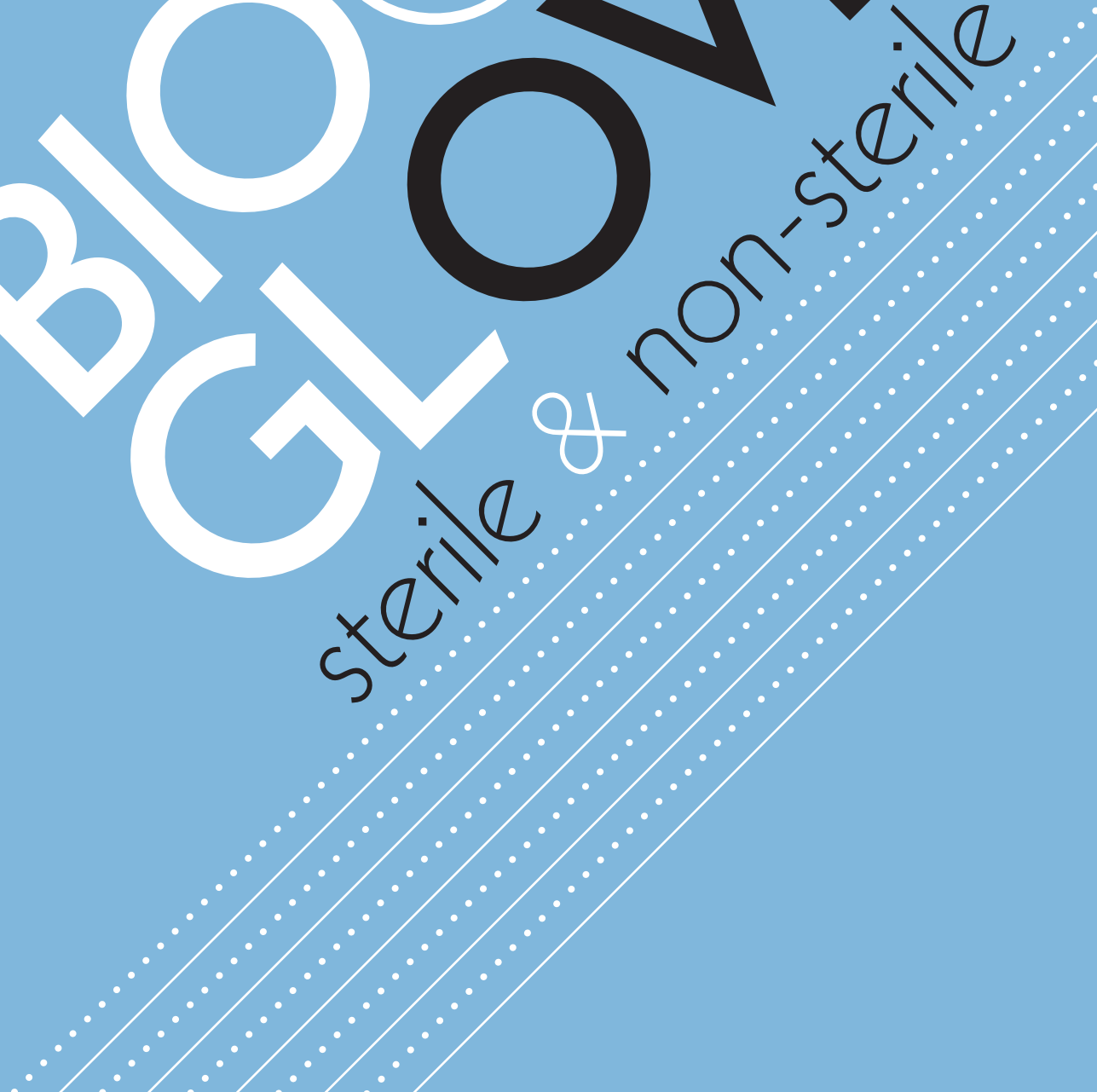
A BioClean shipment leaving the factory for another on time delivery.





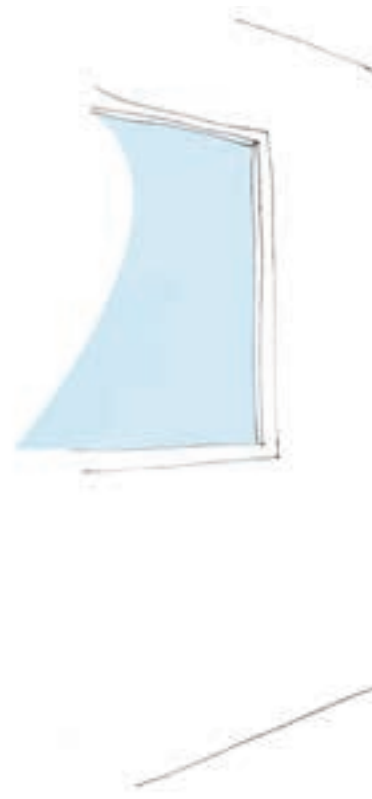
BLOG CLEAN

GLOVES
sterile & non-sterile





BioClean Glove
Range Video



{ about }

BioClean™ Gloves

Features & Benefits

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

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. Our operations in both countries are certified by SGS United Kingdom Ltd - a world-renowned certification company.

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.

Materials & Packaging

BioClean gloves comprise the largest range of cleanroom gloves under a single brand, and are manufactured from a variety of materials;

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.

LATEX

The traditional material and still the most comfortable.

NITRILE

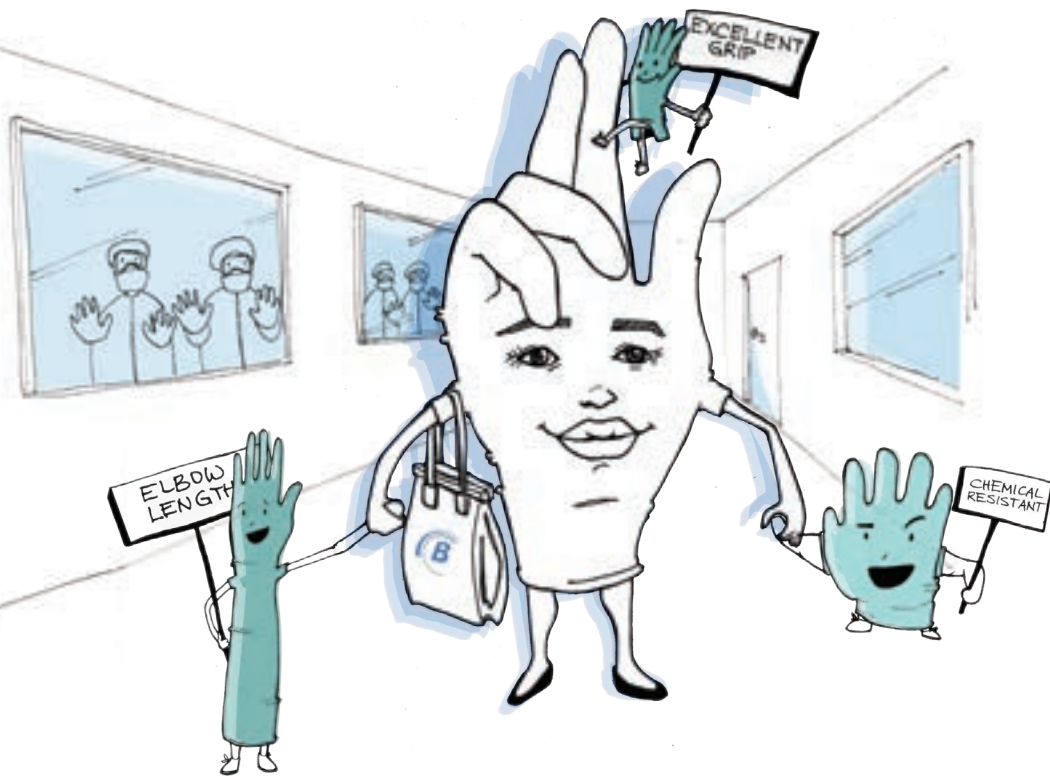
Sensitive, soft and flexible with good puncture resistance and chemical protection. 100% latex-free thereby avoiding the risk of latex allergies.

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.

NEOPRENE

A top of the range, stretchy, synthetic rubber with



Ms. G. Love™

Protector of Products,
Champion of Choice,
Lover of Lengths,
the Undisputed,
Tactile ISO Queen

excellent resistance to many chemicals, a tough material but soft to the touch. 100% latex-free thereby avoiding the risk of latex allergies.

Our gloves are available in a variety of lengths including 300mm, 400mm, and 600mm and in a wide range of sizes to ensure a comfortable fit for all users. The BioClean glove range will have a glove to suit the grip you require, whether it is for high, medium or icy smooth grip.

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.

FAQs

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.

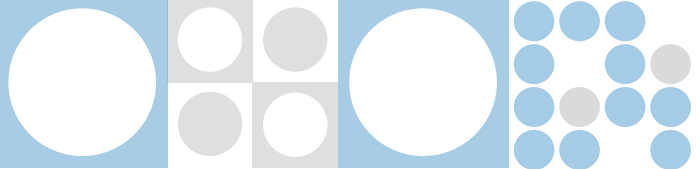
Are my gloves suitable for use with cytotoxic (chemotherapy) drugs?

Under our BioClean Chemo Safety Wear range we have a comprehensive selection of gloves suitable for use when handling cytotoxic drugs. Please see the Chemo Safety Wear section within this catalogue for our complete range.

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 EN374-3:2003. Please see the Chemo Safety Wear section of this catalogue for further details on glove testing.

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 XXLarge to 10.0. Dimensions for both types are covered under the European Standards EN455-2 and EN420.



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.

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.

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.

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.

Please see page 38 for our BioClean BarrierPlus gauntlet range.

About BioClean™ Chemotherapy Gloves

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 standards to ensure the safe handling of chemotherapy

drugs. ASTM D6978-05 is the internationally accepted standard specifically designed for the assessment of resistance of medical gloves to permeation by chemotherapy drugs, unlike the European standard EN374 which is not specific to chemotherapy drugs and has no requirement to test against any cytotoxics.

The EN standard is carried out on the thicker palm area at 23°C. In contrast, the ASTM standard requires the chemotherapy drugs to be tested at the thinnest part of the glove and close to core body temperature (35°C). This is important as the permeation of chemicals through gloves increases exponentially at higher temperatures. The strict ASTM test standard also means the permeation detection levels are set at 100 times greater than that of the EN standard.

The Importance of Double-Gloving

BioClean non-latex chemotherapy gloves are designed to work as a double-gloving system, offering operators an additional layer of protection throughout the chemo preparation and administration process. Tested against the world's most stringent applicable standard, ASTM D6978-05, BioClean chemo safety gloves are best in class.

By choosing a brightly coloured underglove with a natural coloured outer glove, any breach is immediately visible, giving the operator an early signal to change gloves.

- **Easy-on technology** – proprietary technology allowing all non-latex chemotherapy gloves to double-glove with ease
- **Early warning** – double-gloving with a coloured underglove allows operators to identify a breach immediately
- **Safety in layers** – double-gloving testing on a combination of our BioClean Ultimate™ and BioClean Emerald™ shows ZERO permeation detected after 4 hours against ASTM D6978-05
- **Flexibility in choice** – multiple combinations of double-donnable gloves available to suit your SOP and production requirements
- **Skin friendly** – all our chemotherapy gloves are 100% latex-free, eliminating risk from protein based allergies
- **Contamination control** – all gloves are processed and packed in an NEBB certified ISO Class 4 cleanroom and fully validated for sterility



**BioClean
Double-donning
Procedure**

sterile

FLOWERS



AL300

BIOCLEAN ALPHA™

{ AL300 }

BIOCLEAN ALPHA™ STERILE LATEX GLOVES
Extra thick cuff for added strength

- 300mm/12" length
- Textured
- Double-donnable
- Extra thick cuff
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Standards
AL300-60	6.0	
AL300-65	6.5	
AL300-70	7.0	
AL300-75	7.5	
AL300-80	8.0	
AL300-85	8.5	
AL300-90	9.0	



BLAS

BIOCLEAN EXTRA™

{ BLAS }

BIOCLEAN EXTRA™ STERILE LATEX GLOVES
Unbeatable comfort & elbow length protection

- 400mm/16" length
- Textured
- Double-donnable
- Improved grip
- ISO Class 4 & EU GMP Grade A compatible
- Ambidextrous
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

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



BLLS

BIOCLEAN MAXIMA™

{ BLLS }

BIOCLEAN MAXIMA™ STERILE LATEX GLOVES
Full arm protection

- 600mm/24" length
- Textured
- Double-donnable
- Shoulder length
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 10 bags of 10 pairs (100 pairs) per carton

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

*Non-stock size. Please contact for MOQ and lead time.

BASL

BIOCLEAN
ADVANCE™

{ BASL }

BIOCLEAN ADVANCE™ STERILE LATEX GLOVES
The definitive double-donnable glove

- 300mm/12" length
- Textured
- Double-donnable
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

BASL6.0
 BASL6.5
 BASL7.0
 BASL7.5
 BASL8.0
 BASL8.5
 BASL9.0
 BASL10.0

Size

6.0
 6.5
 7.0
 7.5
 8.0
 8.5
 9.0
 10.0

Standards





BENS

BIOCLEAN EMERALD™

{ BENS }

BIOCLEAN EMERALD™ STERILE NITRILE GLOVES
Super-sensitive & accelerator-free

- 300mm/12" length
- Textured for enhanced grip
- Double-donnable
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Standards
BENS6.0	6.0	 ASTM D6978-05 
BENS6.5	6.5	
BENS7.0	7.0	
BENS7.5	7.5	
BENS8.0	8.0	
BENS8.5	8.5	
BENS9.0	9.0	
BENS10.0	10.0	





BNPS

BIOCLEAN N-PLUS™

{ BNPS }

BIOCLEAN N-PLUS™ STERILE NITRILE GLOVES
Elbow length for extra protection

- 400mm/16" length
- Textured
- Elbow length
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- White
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Standards
BNPS60	6.0	 ASTM D6978-05 
BNPS65	6.5	
BNPS70	7.0	
BNPS75	7.5	
BNPS80	8.0	
BNPS85	8.5	
BNPS90	9.0	
BNPS100	10.0	





BNMS

BIOCLEAN NITRAMAX™

{ BNMS }

BIOCLEAN NITRAMAX™ STERILE NITRILE GLOVES
Full arm protection

- 600mm/24" length
- Textured
- Shoulder length
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- White
- Packing - 10 bags of 10 pairs (100 pairs) per carton

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

BEXS


 BIOCLEAN
EXCELL™
{ BEXS }**BIOCLEAN EXCELL™ STERILE NITRILE GLOVES**
Comfortably the best choice & accelerator-free

- 300mm/12" length
- Textured
- Super tactility and comfort
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- White
- Packing - 20 bags of 10 pairs (200 pairs) per carton

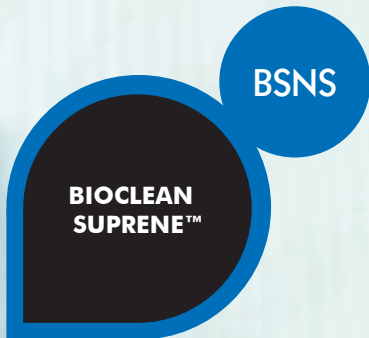
Re-order Code

BEXS-60
 BEXS-65
 BEXS-70
 BEXS-75
 BEXS-80
 BEXS-85
 BEXS-90
 BEXS-100

Size

6.0
 6.5
 7.0
 7.5
 8.0
 8.5
 9.0
 10.0

Standards



non-latex double-gloving

{ BSNS }

BIOCLEAR SUPRENE™ STERILE NEOPRENE GLOVES
Enhanced softness & strength

- 300mm/12" length
- Double-donnable
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Mint green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code
BSNS-60
BSNS-65
BSNS-70
BSNS-75
BSNS-80
BSNS-85
BSNS-90

Size
6.0
6.5
7.0
7.5
8.0
8.5
9.0

Standards

CE 0120

ASTM D6978-05

EN 374 A K L EN 374 LEVEL 2 EN 421 LEVEL 2



Fusion
Gloves Video



S-BFAP

BIOCLEAN
FUSION™



BPZS

BIOCLEAN
P-ZERO™

{ S - B F A P }

**BIOCLEAN FUSION™ STERILE
POLYCHLOROPRENE GLOVES**
Excellent grip & feels like latex

- 300mm/12" length
- Double-donnable
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Ambidextrous
- Green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

Size

Standards

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



{ B P Z S }

**BIOCLEAN P-ZERO™ STERILE
POLYCHLOROPRENE GLOVES**
Excellent grip & cytotoxic protection

- 300mm/12" length
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

Size

Standards

BPZS60	6.0
BPZS65	6.5
BPZS70	7.0
BPZS75	7.5
BPZS80	8.0
BPZS85	8.5
BPZS90	9.0





BUPS **BIOCLEAN ULTIMATE™**


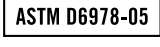



S-BGHF **BIOCLEAN HALFINGERS™**

{ B U P S }

BIOCLEAN ULTIMATE™ STERILE POLYCHLOROPRENE GLOVES
Excellent sensitivity & cytotoxic protection

- 300mm/12" length
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

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

{ S - B G H F }

BIOCLEAN HALFINGERS™ STERILE NYLON GLOVES
Tactile underglove protection

- 145mm/5.75" length
- 100% Nylon
- Universal fit
- ISO Class 4 & EU GMP Grade A compatible
- Ambidextrous
- White
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code	Size	Standards
S-BGHF	Universal	 

GLOVES

non-sterile

BLA3

BIOCLEAN LEGION™

unbeatable **comfort** **elbow length** protection

{ BLA3 }

BIOCLEAN LEGION™ NON-STERILE LATEX GLOVES
Unbeatable comfort with elbow length protection

- 400mm/16" length
- Textured
- ISO Class 5 compatible
- Double-donnable
- Ambidextrous
- Natural
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

- BLA300-XS
- BLA301-S
- BLA302-M
- BLA303-L
- BLA304-XL

Size

- X-Small
- Small
- Medium
- Large
- X-Large

Standards



BLA2


**BIOCLEAN
LEGACY™**
{ BLA2 }**BIOCLEAN LEGACY™ NON-STERILE LATEX GLOVES**
Unbeatable comfort

- 300mm/12" length
- Textured
- ISO Class 4 compatible
- Double-donnable
- Ambidextrous
- Natural
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

BLA200-XS
BLA201-S
BLA202-M
BLA203-L
BLA204-XL
BLA205-XXL

Size

X-Small
Small
Medium
Large
X-Large
XX-Large

Standards





BIOTAC

BIOCLEAN BIOTAC™

{ BIOTAC }

BIOCLEAN BIOTAC™ NON-STERILE NITRILE GLOVES
Superior grip

- 300mm/12" length
- Textured
- ISO Class 5 compatible
- Ambidextrous
- White
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

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

*Non-stock size. Please contact for MOQ and lead time



BTAN

BIOCLEAN TISO™

{ BTAN }

BIOCLEAN TISO™ NON-STERILE NITRILE GLOVES
Internally Textured for Comfort

- 300mm/12" length
- Textured inner surface
- ISO Class 4 compatible
- Ambidextrous
- White
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

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



BNAL

BIOCLEAN NERVA™

{ BNAL }

BIOCLEAN NERVA™ NON-STERILE NITRILE GLOVES
Excellent comfort & elbow length protection

- 400mm/16" length
- Textured
- ISO Class 4 compatible
- Ambidextrous
- White
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

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



**BIOCLEAN
NANO 5™**

NAN5

NEW

{ **NAN5** }

BIOCLEAN NANO5™ NON-STERILE NITRILE GLOVES
Provides great grip & dexterity

- 300mm/12" length
- Finger-textured
- ISO Class 5 compatible
- Ambidextrous
- White
- Packing – 10 bags x 100 gloves (1000 gloves) per carton

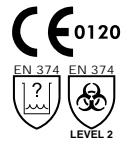
Re-order Code

- NAN5-XS
- NAN5-S
- NAN5-M
- NAN5-L
- NAN5-XL
- NAN5-XXL

Size

- X-Small
- Small
- Medium
- Large
- X-Large
- XX-Large

Standards





BVA

BIOCLEAN
VISTA™



BVA-E

BIOCLEAN
VECTOR™

{ BVA }

BIOCLEAN VISTA™ NON-STERILE VINYL GLOVES Economic alternative to nitrile

- 300mm/12" length
- Textured
- ISO Class 4 compatible
- Ambidextrous
- Clear
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

BVA-S
BVA-M
BVA-L
BVA-XL

Size

Small
Medium
Large
X-Large

Standards



{ BVA - E }

BIOCLEAN VECTOR™ NON-STERILE VINYL GLOVES Economic alternative to nitrile

- 300mm/12" length
- Textured
- ISO Class 5 compatible
- Ambidextrous
- Clear
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

BVA-E-S
BVA-E-M
BVA-E-L
BVA-E-XL

Size

Small
Medium
Large
X-Large

Standards



BFAP

**BIOCLEAN
FUSION™**

**Fusion
Gloves Video**



{ **BFAP** }

BIOCLEAN FUSION™ NON-STERILE POLYCHLOROPRENE GLOVES
Protects like nitrile – feels like latex

- 300mm/12" length
- Textured
- Exceptional tactility & comfort
- ISO Class 4 compatible
- Double-donnable
- Ambidextrous
- Green
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

- BFAP-XS
- BFAP-S
- BFAP-M
- BFAP-L
- BFAP-XL
- BFAP-XXL

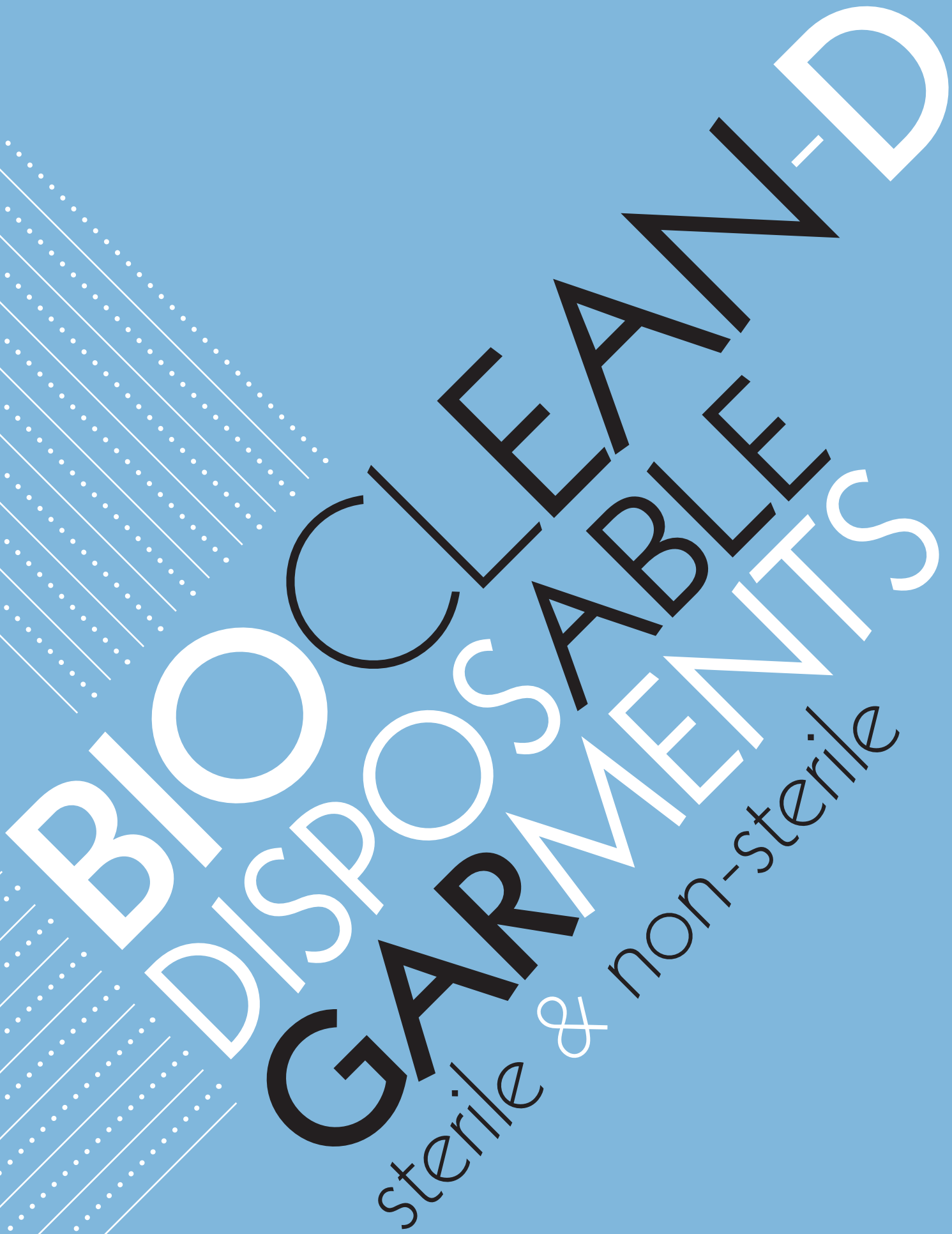
Size

- X-Small
- Small
- Medium
- Large
- X-Large
- XX-Large

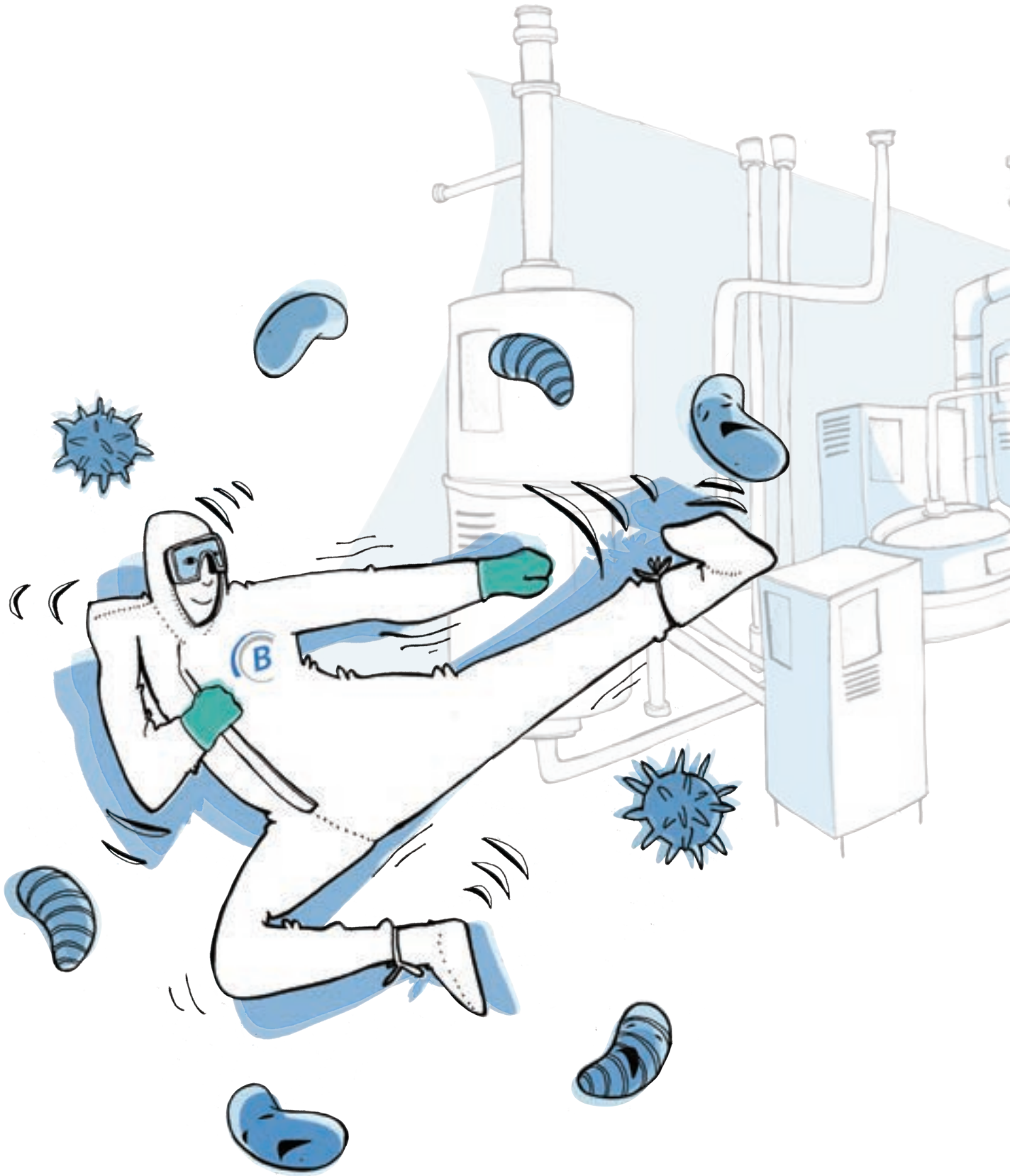
Standards





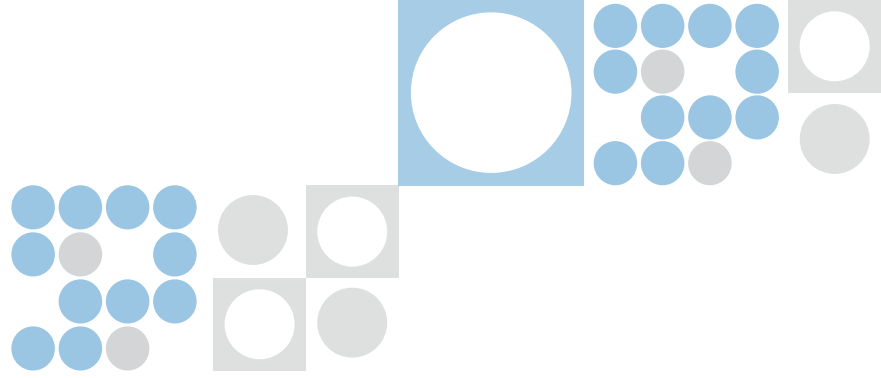
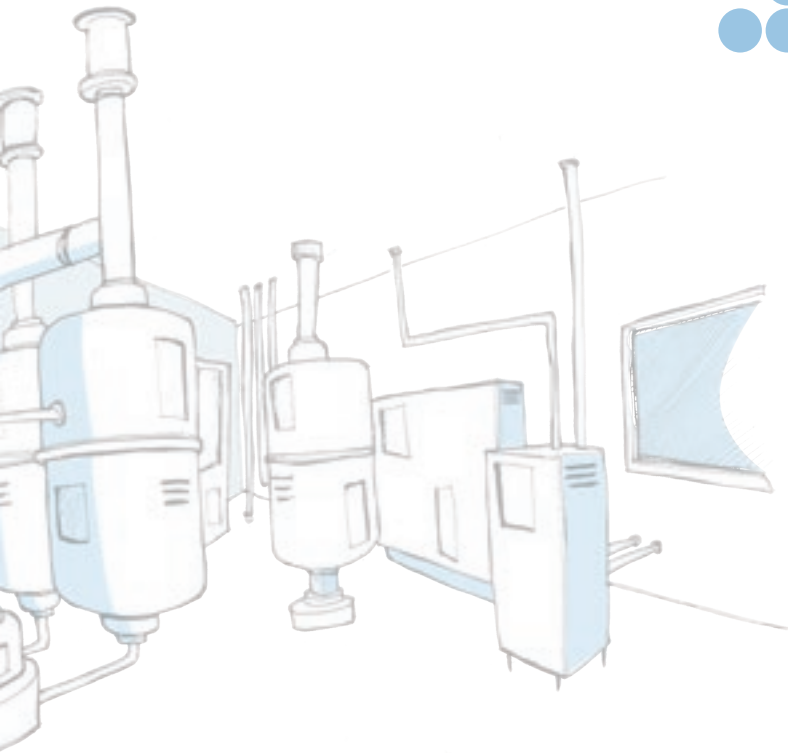


**BIO
DISPOSABLES
CLEAN
GARNMENTS**
sterile & non-sterile



Billy BioClean™

Purger of Particles,
Saviour of Sterility,
Quasher of Contamination,
the King of Cleanroom
Contamination Control



**BioClean
Disposable
Garments
Video**

{ about }

BioClean-D™ Disposable Garments

BioClean-D™ garments are specially designed and manufactured from CleanTough™ lightweight low-linting durable 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.

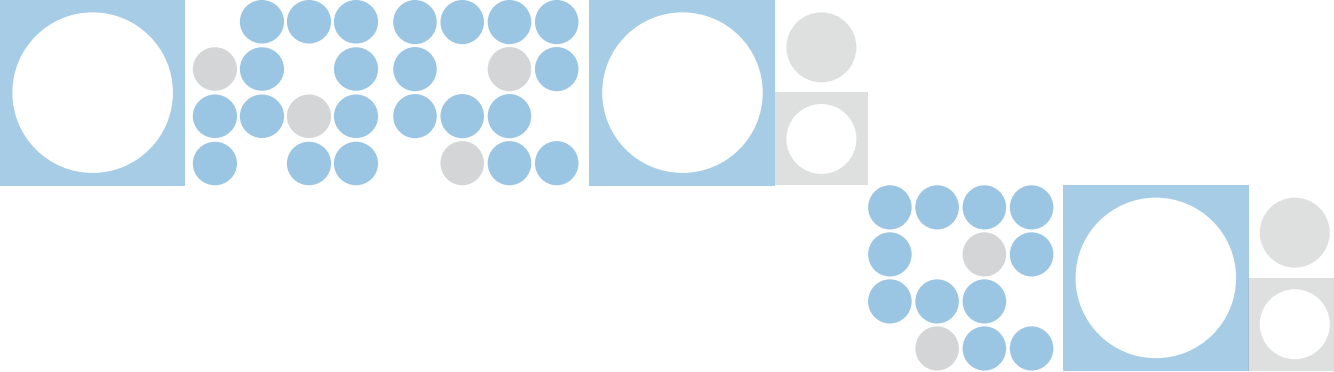
Features & Benefits

BioClean-D standard coveralls have elasticated openings to restrict particle release and have an elasticated waist to prevent the bellows effect due to air pressure build-up and are available in an extensive range of sizes to suit all users. For protection and strength, BioClean-D standard coveralls have bound seams, and a high quality zip with an adhesive material flap to protect this vulnerable area. BioClean-D overboots have slip-resistant soles and reinforced ties.

Quality Systems & Testing

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



handling standard with no breakthrough detected after 480 minutes for all of the drugs tested.

BioClean-D garments also 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.

Packaging

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™ Bespoke Kits

If required, BioClean-D garments can be pre-packed as bespoke kits of any combination of the individual items e.g. coverall with collar, hood and overboots all packed together – the combination choice is yours!

FAQs

What is the material used?

BioClean-D garments are all manufactured using our

proprietary CleanTough™ material 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.

Does the zip area give the same level of protection?

Yes - providing the garment is correctly worn. The zip has a protective flap of CleanTough material 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.

What about the seams? How are they constructed?

The seams are just one of the many areas where the BioClean-D range of disposable garments displays superior design features normally only found in high quality reusable garments. All the raw edges of our seams are bound (covered) with an extra piece of material which allows maximum barrier protection and seam strength and covers all exposed edges to minimize particle shedding.

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 $5 \times 10^{10} \Omega$.

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.

sterile

PROTECT AND CLEAN

disposable garments

S-BDSH

BIOCLEAR-D™
DROP-DOWN
GARMENT WITH
HOOD

Product Details



Aseptic donning

Step 1



Step 2



Step 3

Aseptic
Donning
Instructionsa new era
— OF —
aseptic donning

NEW

{ S - B D S H }

BIOCLEAR-D™ STERILE DROP-DOWN GARMENT WITH HOOD

Quick & simple aseptic donning

- ISO Class 4 & EU GMP Grade A compatible
- Antistatic, low linting & durable CleanTough™ fabric
- Quick release press stud tabs for touch-free donning
- Elasticated back, hood, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL – 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30" - 33")	158-164cm (5'2" - 5'4")	S-BDSH-XS
Small	84-92cm (33"-36")	164-170cm (5'4" - 5'6")	S-BDSH-S
Medium	92-100cm (36"-39")	170-176cm (5'6" - 5'9")	S-BDSH-M
Large	100-108cm (39"-42")	176-182cm (5'9" - 6'0")	S-BDSH-L
XLarge	108-116cm (42"-45")	182-188cm (6'0" - 6'2")	S-BDSH-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2" - 6'4")	S-BDSH-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4" - 6'6")	S-BDSH-XXXL
*XXXXLarge	132-140cm (51"-54")	200-206cm (6'6" - 6'8")	S-BDSH-XXXXL

*Non-stock size. Please contact for MOQ and lead time.

S-BDFC

**BIOCLEAN-D™
COVERALL
WITH HOOD
& INTEGRATED
BOOTS**

STERILE / BIOCLEAN-D

protection — FROM — head-to-toe



NEW

{ S - B D F C }

BIOCLEAN-D™ STERILE COVERALL WITH HOOD & INTEGRATED BOOTS* Head-to-toe coverage

- ISO Class 4 compatible
- Antistatic, low-linting & durable CleanTough™ fabric
- Zip with front cover
- Slip-resistant soles
- Elasticated back, hood, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL – 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30" – 33")	158-164cm (5'2" - 5'4")	S-BDFC-XS
Small	84-92cm (33"-36")	164-170cm (5'4" - 5'6")	S-BDFC-S
Medium	92-100cm (36"-39")	170-176cm (5'6" - 5'9")	S-BDFC-M
Large	100-108cm (39"-42")	176-182cm (5'9" - 6'0")	S-BDFC-L
XLarge	108-116cm (42"-45")	182-188cm (6'0" - 6'2")	S-BDFC-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2" - 6'4")	S-BDFC-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4" - 6'6")	S-BDFC-XXXL
XXXXLarge	132-140cm (51"-54")	200-206cm (6'6" - 6'8")	S-BDFC-XXXXL

*Non-stock item. Please contact for MOQ and lead time.

S-BDCHT

BIOCLEAN-D™
COVERALL
WITH HOOD

STERILE / BIOCLEAN-D



exceptional protection — AND — low-linting

{ S - B D C H T }

BIOCLEAN-D™ STERILE COVERALL WITH HOOD Exceptional comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30"-36")	158-164cm (5'2" - 5'4")	S-BDCHT-XS
Small	84-92cm (33"-36")	164-170cm (5'4" - 5'6")	S-BDCHT-S
Medium	92-100cm (36"-39")	170-176cm (5'6" - 5'9")	S-BDCHT-M
Large	100-108cm (39"-42")	176-182cm (5'9" - 6'0")	S-BDCHT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0" - 6'2")	S-BDCHT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2" - 6'4")	S-BDCHT-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4" - 6'6")	S-BDCHT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6" - 6'8")	S-BDCHT-XXXL

*Non-stock size. Please contact for MOQ and lead time.



{ S - BDCCT }

BIOCLEAN-D™ STERILE COVERALL WITH COLLAR

Exceptional comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	S-BDCCT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	S-BDCCT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	S-BDCCT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	S-BDCCT-XL
XXLarge	108-116cm (42"-45")	188-194cm (6'2"- 6'4")	S-BDCCT-XXL
*XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	S-BDCCT-XXXL
*XXXXLarge	132-140cm (51"-54")	200-206cm (6'6"-6'8")	S-BDCCT-XXXXL

*Non-stock size. Please contact for MOQ and lead time.



S-BDCCT

BIOCLEAN-D™
COVERALL
WITH
COLLAR



STERILE / BIOCLEAN-D

{ S - BDLC }

BIOCLEAN-D™ STERILE LAB COAT*

Exceptional comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Press stud fastenings, open cuff, three pockets & rear vent
- Packing - 30 individually packed coats per carton

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	S-BDLC-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	S-BDLC-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	S-BDLC-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	S-BDLC-XL
XXLarge	116-124cm (45"- 48")	188-194cm (6'2"- 6'4")	S-BDLC-XXL

*Low stock item. Please contact for lead time.



S-BDLC

BIOCLEAN-D™
LAB COAT





S-BDHD

BIOCLEAR-D™
HOOD

{ S - B D H D }

BIOCLEAR-D™ STERILE HOOD
Comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable Clean-Tough™ fabric
- Elasticated face opening with reinforced edges
- Packing - 6 bags of 30 hoods (180 individually packed hoods) per carton

Re-order Code
S-BDHD

Size
Universal

Standards
CE 0120



{ S - B D S C - L }

BIOCLEAR-D™ SLEEVE COVERS
Extra-long length for complete protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable Clean-Tough™ fabric
- 500mm length with elasticated arms and cuffs
- Packing - 6 bags of 15 pairs (90 individually packed pairs) per carton

Re-order Code
S-BDSC-L

Size
Universal

Standards
CE 0120



S-BDSC-L

BIOCLEAR-D™
SLEEVE
COVERS



{ S - B D O B }

BIOCLEAR-D™ STERILE OVERBOOTS
Slip-resistant sole

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable Clean-Tough™ fabric
- Elasticated top with secure ties and slip-resistant soles
- Packing - 5 bags of 15 pairs (75 individually packed pairs) per carton

Re-order Code
S-BDOB

Size
Universal

Standards
CE 0120



S-BDOB

BIOCLEAR-D™
OVERBOOTS

non-sterile
BLOCCLEAN[®]
disposable garments

BDCCT

BIOCLEAN-D™
COVERALL
WITH
COLLAR

NON-STERILE / BIOCLEAN-D



exceptional comfort — AND — protection

{ BDCCT }

BIOCLEAN-D™ NON-STERILE COVERALL WITH COLLAR Exceptional comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	S-BDCCT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	S-BDCCT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	S-BDCCT-L
XXLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	S-BDCCT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	S-BDCCT-XXL
*XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	S-BDCCT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6"- 6'8")	S-BDCCT-XXXXL

*Non-stock size. Please contact for MOQ and lead time.



BDCHT

**BIOCLEAN-D™
COVERALL
WITH
HOOD**

NON-STERILE / BIOCLEAN-D

protection

— FROM —

head-to-foot

{ BDCHT }

BIOCLEAN-D™ NON-STERILE COVERALL WITH HOOD
Exceptional comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30"-36")	158-164cm (5'2"- 5'4")	BDCHT-XS
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	BDCHT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	BDCHT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	BDCHT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	BDCHT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	BDCHT-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	BDCHT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6"- 6'8")	BDCHT-XXXL

*Non-stock size. Please contact for MOQ and lead time.



{ BDLC }**BIOCLEAN-D™ NON-STERILE LAB COAT**
Exceptional comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Press stud fastenings, open cuff, three pockets & rear vent
- Packing - 30 individually packed coats per carton

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	BDLC-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	BDLC-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	BDLC-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	BDLC-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	BDLC-XXL



BDLC

BIOCLEAN-D™
LAB COAT

NEW

{ BHVC }**BIOCLEAN-D™ NON-STERILE VISITOR COAT***
Disposable, lightweight & comfortable

- ISO Class 4 compatible
- Antistatic, low-linting & durable CleanTough™ fabric
- Press studs for easy fastening
- Mandarin collar
- Elasticated cuffs
- One top and two lower pockets
- Packing – 30 individually packed visitor coats per carton

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	BHVC-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	BHVC-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	BHVC-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	BHVC-XL

* Non-stock item. Please contact for MOQ and lead time.

BHVC

BIOCLEAN-D™
VISITOR
COAT



BDHD

BIOCLEAN-D™
HOOD

{ BDHD }

BIOCLEAN-D™ NON-STERILE HOOD
Comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated face opening with reinforced edges
- Packing - six bags of 30 pieces (180 pieces) per carton

Re-order Code
BDHD

Size
Universal

Standards
CE 0120
PPE CATEGORY 3 TYPE PB[6]

NON-STERILE / BIOCLEAN-D

{ BDSC-L }

BIOCLEAN-D™ NON-STERILE SLEEVE COVERS
Extra-long length for complete protection

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- 500mm length with elasticated arms and cuffs
- Packing - six bags of 30 pieces (180 pieces) per carton

Re-order Code
BDSC-L

Size
Universal

Standards
CE 0120
PPE CATEGORY 3 TYPE PB[6]

BDSC-L

BIOCLEAN-D™
SLEEVE
COVERS



{ BDOB }

BIOCLEAN-D™ NON-STERILE OVERBOOTS
Slip-resistant sole

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated top with secure ties and slip-resistant soles
- Packing - five bags of 30 pieces (150 pieces) per carton

Re-order Code
BDOB

Size
Universal

Standards
CE 0120
PPE CATEGORY 3 TYPE PB[6]

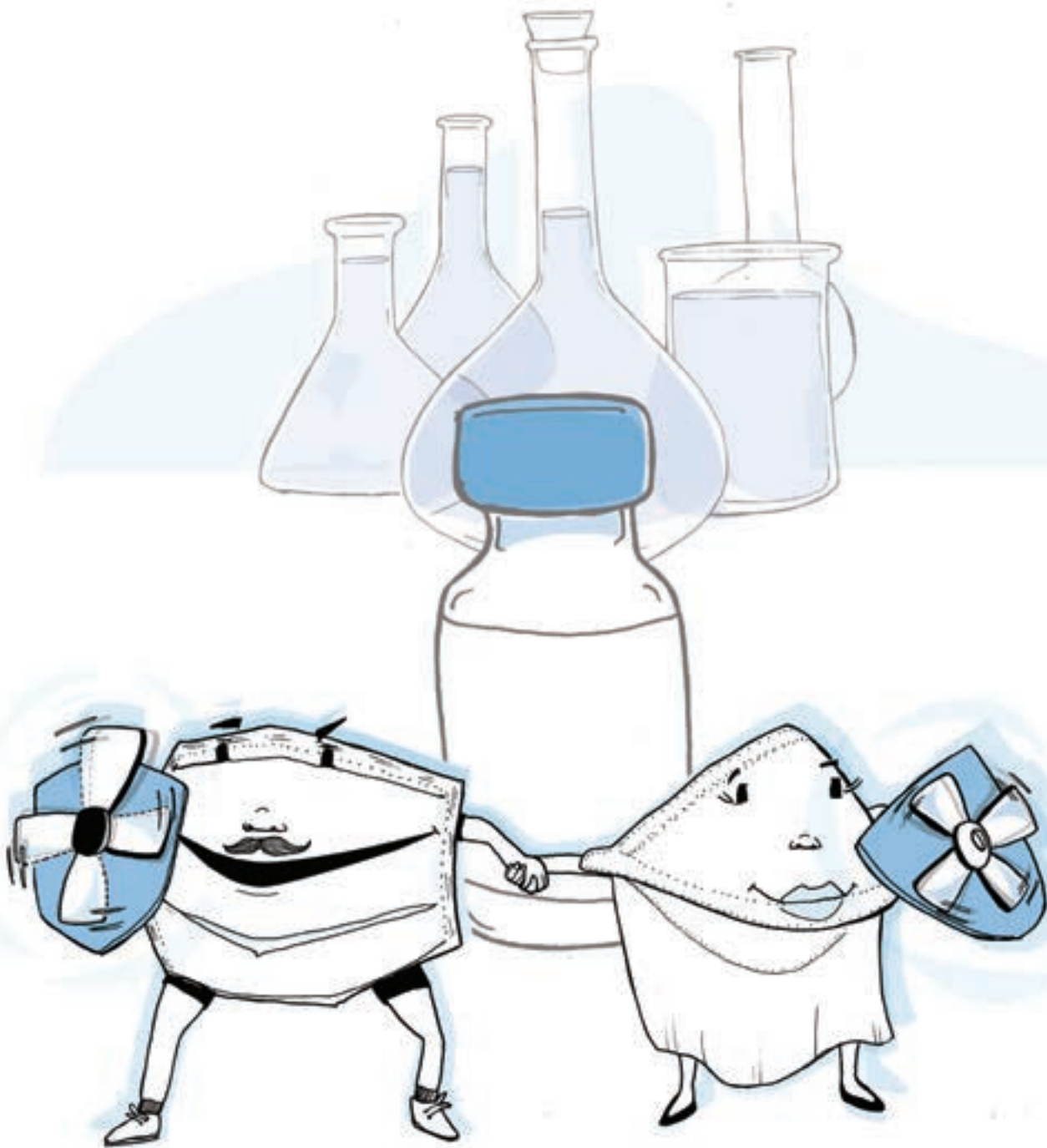


BDOB

BIOCLEAN-D™
OVERBOOTS

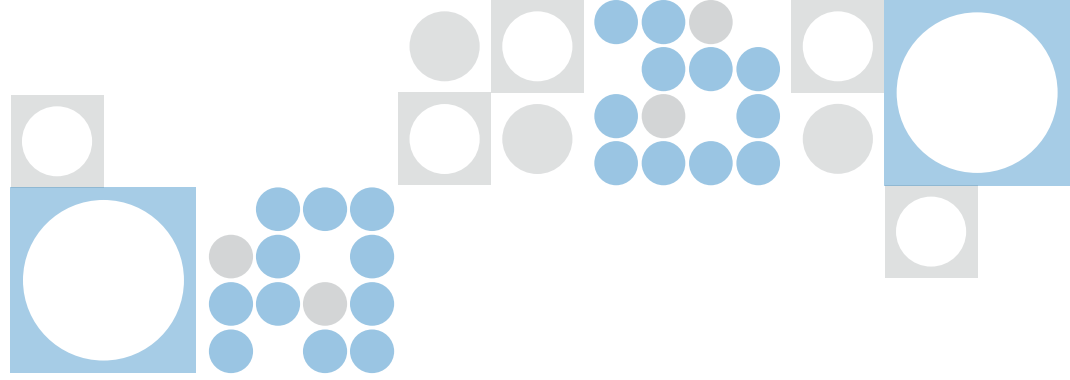


BO face masks
sterile & non-sterile
CLEAR



Mr. & Mrs. Phil Trayshon™

Defenders of the Face,
Protectors from Particles,
Bringers of Breathability,
the Ultra-Clean Face
Coverage Team



{ about }

BioClean™ Facemasks

Features & Benefits

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

The BioClean range includes flat and pouch-style facemasks with looped or tie-on-fastenings, and face veils for product protection for less critical applications. The range also includes visor facemasks.

Quality Systems & Testing

Our facemasks are processed in a certified ISO Class 4 cleanroom environment. All facemasks 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 hydrophilic inner layer to absorb moisture for increased comfort.

Sterile Configurations

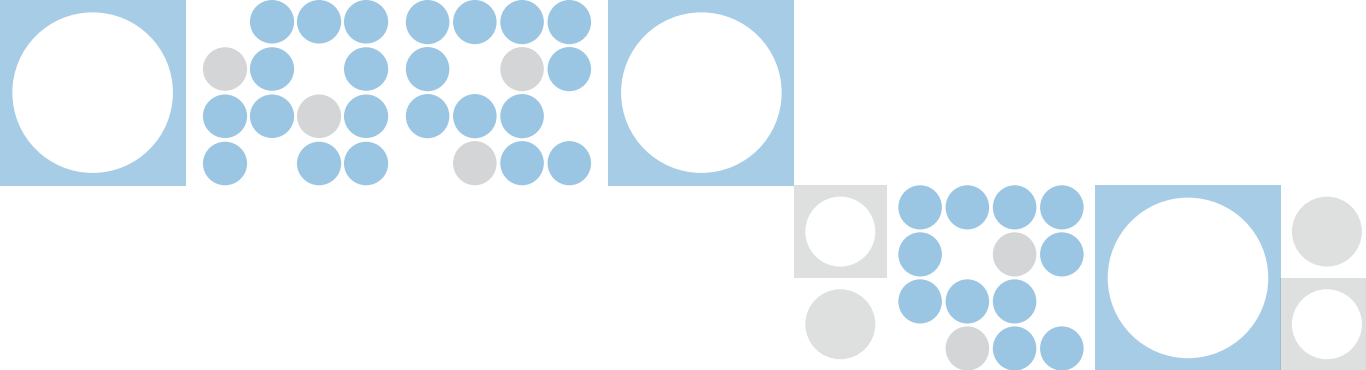
Flat facemasks have a non-woven spunbonded polyester outer layer, a high efficiency meltblown non-woven polyester filter layer and a non-woven polypropylene/ polyethylene inner facing layer.

Pouch-style facemasks have non-woven spunbonded polyester outer and inner layers and a high efficiency meltblown non-woven polyester filter layer.

Non-sterile Configurations

Flat facemasks have non-woven polypropylene/ polyethylene outer and inner layers, and a high efficiency meltblown non-woven polypropylene filter layer.

Pouch-style facemasks have non-woven spunbonded polyester outer and inner layers and a high efficiency meltblown non-woven polypropylene filter layer.



BioClean Microflow™ face veils are manufactured from low-linting, thermabond, non-woven apertured polyethylene with fully-enclosed flexible and malleable nose-bands, and either tubular polyester headloops (BFV05) or stainless steel studs (BFV06) for attaching them to cleanroom hoods. The BioClean Soffflow™ face veils are manufactured from a low-linting, hydroentangled polyester material with fully-enclosed flexible and malleable nose-bands and tubular polyester headloops.

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

FAQs

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 do BFE, PFE & Delta P mean?

BFE is a measurement of the bacterial filtration efficiency of a facemask. The test to determine the BFE of a facemask uses live particles (bacteria) that vary in size from between 1 and 5 microns. Generally a BFE rating of 97% or above is desired for cleanroom facemasks.

PFE is a measurement of the particle filtration efficiency of a facemask. This test uses inanimate particles that are fixed in size from between 0.1 and 1 micron. Generally a PFE rating of 98% or above is desired for cleanroom facemasks.

Delta P, represented by the symbol ΔP , stands for Differential Pressure. ΔP refers to the pressure drop across a facemask, or the resistance to air flow, and is measured in $\text{mmH}_2\text{O}/\text{cm}^2$. This means that the higher the ΔP figure, the more difficult it is to breathe through the mask. It is also important to note that a higher ΔP will generally equate to superior BFE and PFE, but the trick is to strike a balance between the efficiency of the mask and your ease of breathing.

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.

FACEMASKS

sterile



BDBS

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK**


BDBS-G

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK WITH
NECK GUARD**

{ B D B S }

BIOCLEAN DB™ STERILE POUCH-STYLE FACEMASK

Breathability & comfort

- ISO Class 4 & EU GMP Grade A compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Packing – 10 bags of 20 individually packed facemasks (200 pieces) per carton

Re-order Code

BDBS

{ B D B S - G }

BIOCLEAN DB™ STERILE POUCH-STYLE FACEMASK WITH NECK GUARD

Breathability with extra protection

- ISO Class 4 & EU GMP Grade A compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Spunbonded polyester neck guard
- Packing – 10 bags of 20 individually packed facemasks (200 pieces) per carton

Re-order Code

BDBS-G

VFM

BIOCLEARVIEW™
VISOR
FACEMASK

STERILE / FACEMASKS

facemask with anti-fog visor providing splash protection

{ VFM }

BIOCLEARVIEW™ STERILE LOOPED OR TIE-ON VISOR FACEMASK
Anti-fog visor providing splash protection

- Optically clear, anti-fog & distortion free visor
- Latex-free
- ISO Class 4 compatible
- High BFE & PFE
- 210mm 'one-size-fits-all'
- Looped or tie-on options
- Mask size: 210mm, Visor: 3M, 0.18mm (7 mil) thickness
- Packing – one mask per sealed EasyTear™ polybag, 25 polybags per sealed outer bag, four outer bags (100 pieces) per carton

Re-order Code
VFM210-L
VFM210-T-SLOT

Style
Looped
Tie-on/Slot



**MEA
210-1**

**BIOCLEAN
MEA™
LOOPED
FACEMASK**



**MTA
210-1**

**BIOCLEAN
MTA™
TIE-ON
FACEMASK**

{ MEA 210 - 1 }

BIOCLEAN MEA™ STERILE LOOPED FACEMASK
Ultra-low particulation

- Low-linting
- ISO Class 4 compatible
- High BFE & PFE
- Excellent breathability
- 210mm 'one-size-fits-all'
- Fully enclosed, malleable nose-band
- Polyurethane earloops
- Blue clip allows fastening at back of head
- Packing – one piece with clip per sealed bag, 50 bags per sealed outer bag, 12 outer bags (600 pieces) per carton

Re-order Code
MEA210-1

{ MTA 210 - 1 }

BIOCLEAN MTA™ STERILE TIE-ON FACEMASK
Latex-free & low-linting

- Low-linting
- ISO Class 4 compatible
- High BFE & PFE
- Excellent breathability
- 210mm 'one-size-fits-all'
- Fully enclosed, malleable nose-band
- Non-woven polypropylene ties
- Packing – one piece per sealed bag, 50 bags per sealed outer bag, 10 outer bags (500 pieces) per carton

Re-order Code
MTA210-1

non-sterile

FACE MASKS

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK**

BDBN

{ **B D B N** }

**BIOCLEAN DB™ NON-STERILE POUCH-STYLE
FACEMASK**

Breathability & comfort

- ISO Class 4 compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Latex-free
- Packing – 50 facemasks per inner bag, one inner bag per sealed outer bag, six outer bags (300 pieces) per carton

Re-order Code

BDBN

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK
WITH NECK
GUARD**

BDBN-G

{ **B D B N - G** }

**BIOCLEAN DB™ NON-STERILE POUCH-STYLE
FACEMASK WITH NECK GUARD**

Breathability with extra protection

- ISO Class 4 compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Spunbonded polyester neck guard
- Packing – 50 facemasks per inner bag, one inner bag per sealed outer bag, six outer bags (300 pieces) per carton

Re-order Code

BDBN-G





MEA

**BIOCLEAN
MEA™
LOOPED
FACEMASK**

{ MEA }

**BIOCLEAN MEA™
NON-STERILE LOOPED FACEMASK**
Ultra-low particulation

- Low-linting
- ISO Class 4 compatible
- High BFE & PFE
- Excellent breathability
- 210mm 'one-size-fits-all'
- Polyurethane loops
- Fully enclosed, malleable nose-band
- Blue clip allows fastening at back of head
- Packing:

MEA 210-0 (bulk)

100 masks per inner bag, one inner bag per sealed outer bag, 20 outer bag (2000 pieces) per carton

MEA 210-2 (single) with clips

One mask with clip per sealed bag, 50 bags per sealed outer bag, 12 outer bags (600 pieces) per carton

Re-order Code

MEA210-0
MEA210-2*

Pack

Bulk
Single

*Non-stock item. Please contact for MOQ and lead time

NON-STERILE / FACEMASKS



MTA

**BIOCLEAN
MTA™
TIE-ON
FACEMASK**

{ MTA }

**BIOCLEAN MTA™ NON-STERILE TIE-ON
FACEMASK**
Latex-free & low-linting

- Low-linting
- ISO Class 4 compatible
- High BFE & PFE
- Excellent breathability
- 210mm 'one-size-fits-all'
- Fully enclosed, malleable nose-band
- Non-woven polypropylene ties
- Packing:

MTA 210-0 (bulk)

50 masks per inner bag, one inner bag per sealed outer bag, 16 outer bags (800 pieces) per carton

MTA 210-2 (single)

One mask per sealed bag, 50 bags per sealed outer bag, 10 outer bags (500 pieces) per carton

Re-order Code

MTA210-0
MTA210-2

Pack

Bulk
Single

BFV05

**BIOCLEAN
MICROFLOW™
FACE VEIL
WITH
HEADLOOP**

NON-STERILE / FACE VEILS

{ BFV05 }

BIOCLEAN MICROFLOW™ NON-STERILE FACE VEIL WITH HEADLOOP
Outstanding comfort & wider protection

- ISO Class 4 compatible
- Low-linting
- 15" x 13" (375mm x 330mm)
- Fully-enclosed, flexible and malleable nose-band
- Compatible with all cleanroom garments
- Apertured polyethylene film veil
- Tubular polyester headloop
- Packing – 100 veils per double bag, 10 bags (1000 veils) per carton

Re-order Code
BFV05

BFV06

**BIOCLEAN
MICROFLOW™
FACE VEIL
WITH
STUDS**

NON-STERILE / FACE VEILS

{ BFV06 }

BIOCLEAN MICROFLOW™ NON-STERILE FACE VEIL WITH STUDS
Compatible with BioClean-R hood STH002-S

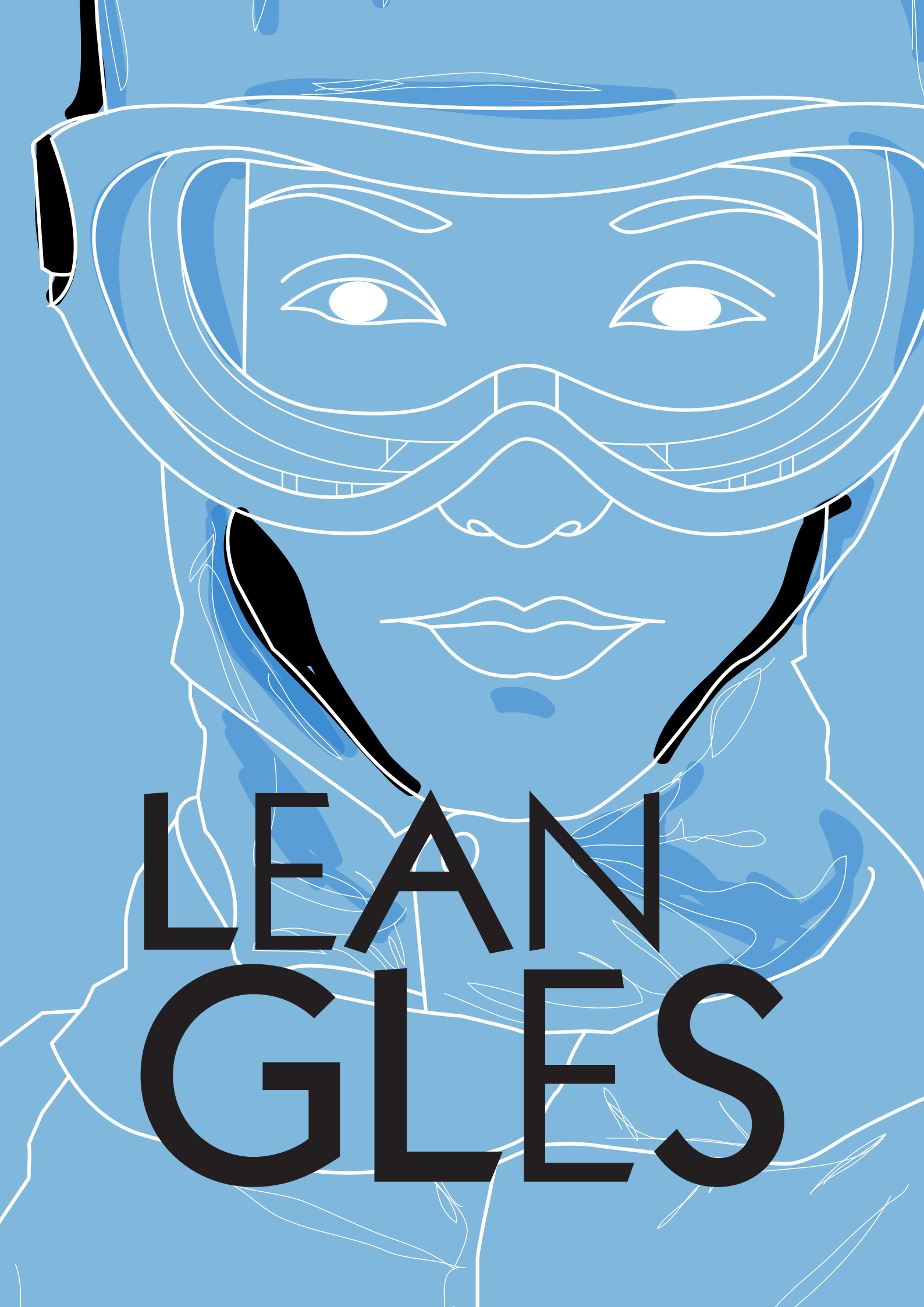
- ISO Class 4 compatible
- Low-linting
- 15" x 13" (375mm x 330mm)
- Fully-enclosed, flexible and malleable nose-band
- Apertured polyethylene film veil
- Studs either side for attachment to cleanroom hoods
- Packing – 50 veils per double bag, 10 bags (500 veils) per carton

Re-order Code

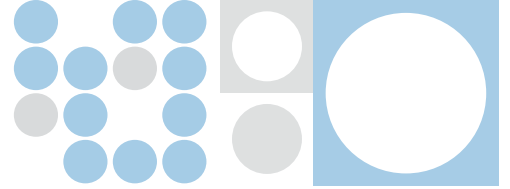
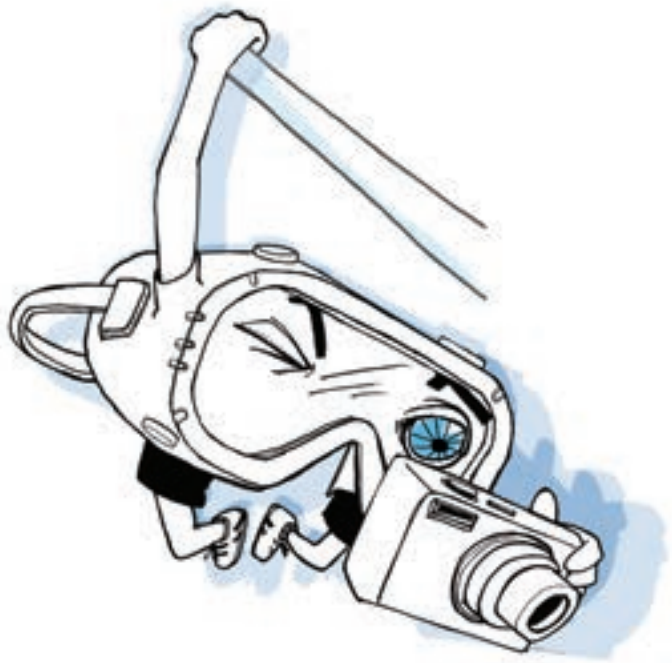
BFV06

BIOC
GOGG





**LEAN
GGLES**



{ about }

BioClean Clearview™ Goggles

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.

BioClean Clearview™ Single Use Sterile Goggles

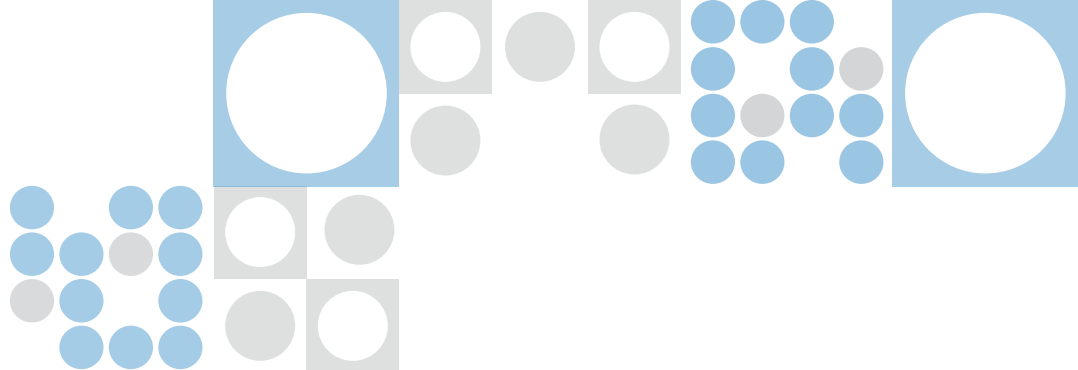
Features & Benefits

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

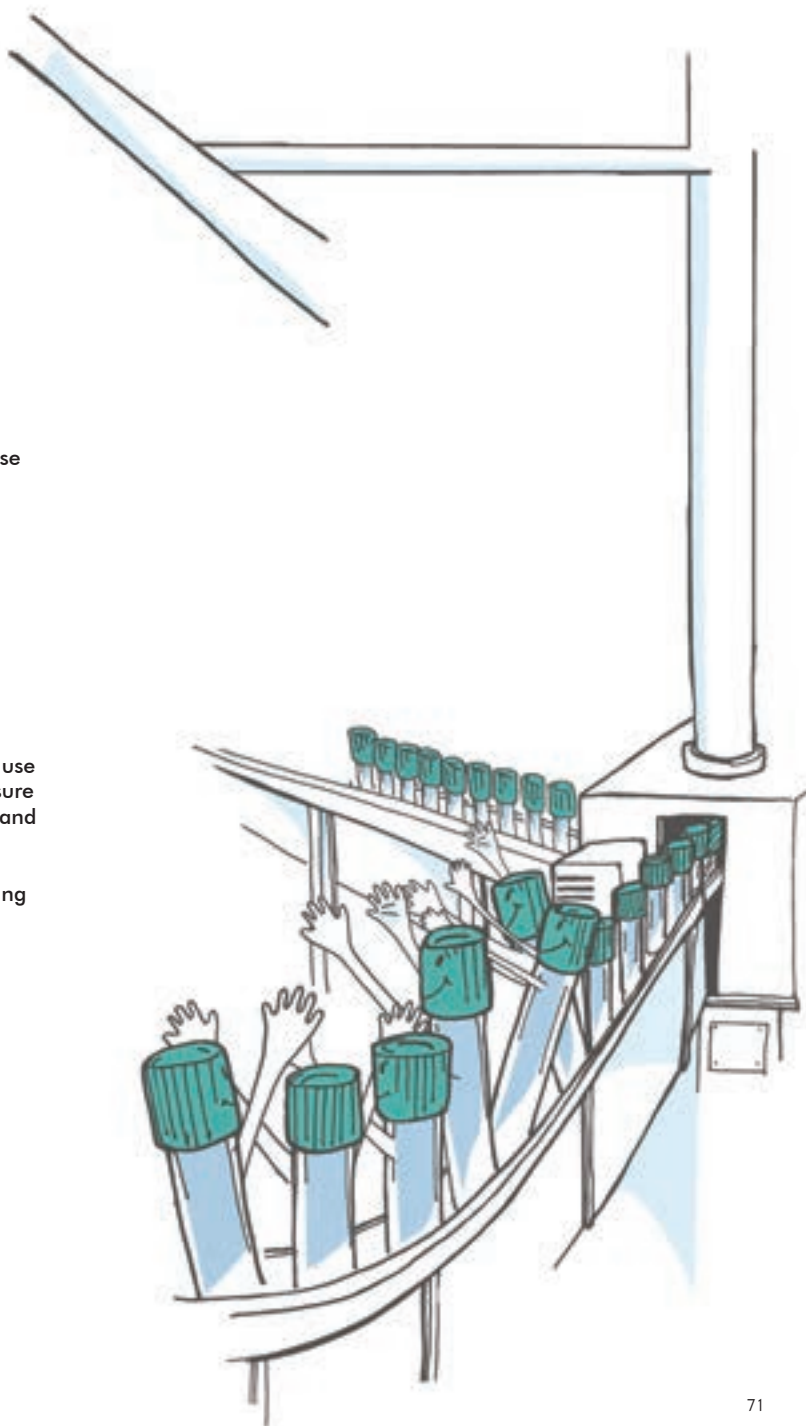
A key feature of these goggles is the optically correct toughened polycarbonate lens with anti-fog and anti-scratch coating, to provide unimpaired vision. The BioClean Clearview goggles strap is made from non-linting, latex-free silicone rubber, and is easily adjusted to provide a secure and stable fit.

Lens Gogglestrong™

Champion of Comfort,
Perfection of Precision,
the Fog Banishing,
All-Seeing Cleanroom Kid



**BioClean
Clearview Single
Use Goggles
Video**



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.

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.

BioClean Clearview™ Autoclavable 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.

Features & Benefits

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 15 cycles at 25 kGy.



Customer Info Aid to help resolve issues with goggles fogging



BioClean Clearview Autoclavable Goggles Video

FAQs

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.

What do I do if the goggles mist up?

BioClean Clearview single use sterile goggles are supplied with an anti-fog treatment on the lenses and will generally work well as long as they are used correctly. All controlled environments operate at controlled temperatures and humidity levels and any brand of goggles is liable to mist up if subjected to quick changes in temperature and humidity. To overcome this issue, we recommend the goggles are placed into the cleanroom changing area for a period of time prior to use so they can acclimatize to the humidity and air temperature of the cleanroom.

What if my autoclavable goggles steam up?

BioClean autoclavable goggles are not anti-fog treated before delivery because the permanent anti-fog film will not withstand multiple autoclaving. Instead, if fogging is a problem, use BioClean sterile anti-fog spray – a few sprays onto the inside of the lens, wiped dry with a sterile wipe will help reduce the effects of fogging.

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.

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.

GOOG GLES

BCGS1

**BIOCLEARVIEW™
SINGLE USE
GOOGLES**

{ BCGS1 }

**BIOCLEARVIEW™ STERILE
SINGLE USE GOOGLES**

Anti-fog & optically correct

- Lightweight ultra-soft PVC
- Indirect ventilation system
- Non-linting head band
- Toughened polycarbonate lens with anti-fog & anti-scratch coating
- EtO sterilized
- Can be worn over eyeglasses
- ISO Class 4 & EU GMP Grade A compatible
- Packing – six bags of 10 individually packed goggles (60 goggles) per carton

Re-order Code

BCGS1

Standards



BVGS

**BIOCLEARVIEW™
SINGLE USE
GOOGLES**

{ BVGS }

**BIOCLEARVIEW™ STERILE SINGLE USE
GOOGLES***

Lightweight & non-linting

- Lightweight PVC body
- Toughened polycarbonate lens with anti-fog & anti-scratch coating
- Non-linting head band
- Indirect ventilation system
- Gamma sterilized
- Can be worn over eyeglasses
- ISO Class 4 & EU GMP Grade A compatible
- Packing – six bags of 10 individually packed goggles (60 goggles) per carton

Re-order Code

BVGS

Standards



*Non-stock item. Please contact for MOQ and lead time.



SINGLE USE / GOOGLES



BCAP

**BIOCLEARVIEW™
AUTOCLAVABLE
PANORAMIC
GOGGLES**

{ BCAP }

BIOCLEARVIEW™ AUTOCLAVABLE PANORAMIC GOGGLES
Extra wide field of vision

- Thermoplastic body
- Indirect ventilation system
- Toughened anti-scratch polycarbonate lens
- Non-linting head band
- Extra wide for panoramic vision
- Can be worn over large eyeglasses
- ISO Class 4 & EU GMP Grade A compatible when sterilized
- Lightweight & comfortable
- > 40 autoclave cycles
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

Re-order Code

BCAP
BCAP-SL
BCAP-SS

Goggles
Spare lens
Spare strap

Standards



BCAH

**BIOCLEARVIEW™
AUTOCLAVABLE
GOGGLES**

{ BCAH }

BIOCLEARVIEW™ AUTOCLAVABLE GOGGLES
Optically correct for clear vision

- Super-soft silicone rubber
- Indirect ventilation system
- Anti-scratch polycarbonate lens
- ISO Class 4 & EU GMP Grade A compatible when sterilized
- Can be worn over eyeglasses
- > 40 autoclave cycles
- Gamma irradiatable (15 cycles)
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

Re-order Code

BCAH
BCAH-SL
BCAH-SS

Goggles
Spare lens
Spare strap



BCAG

**BIOCLEARVIEW™
AUTOCLAVABLE
GOGGLES**

{ BCAG }

BIOCLEARVIEW™ AUTOCLAVABLE GOGGLES
Super-soft for unrivalled comfort

- Thermoplastic body
- Indirect lower vents
- Toughened anti-scratch polycarbonate lens
- Non-linting head band
- Can be worn over eyeglasses
- ISO Class 4 & EU GMP Grade A compatible when sterilized
- > 40 autoclave cycles
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

Re-order Code

BCAG
BCAG-SL
BCAG-SS

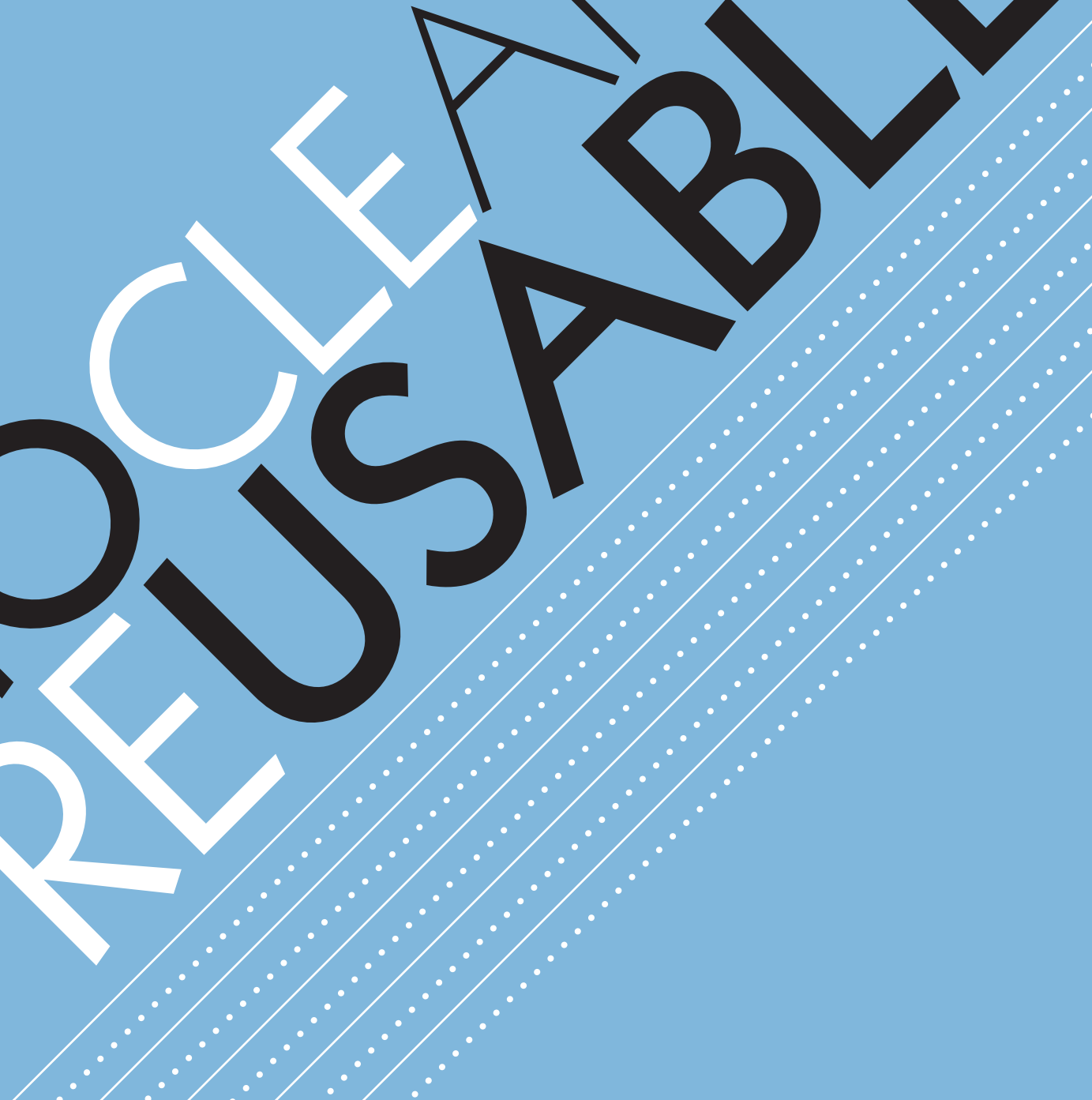
Goggles
Spare Lens
Spare Strap

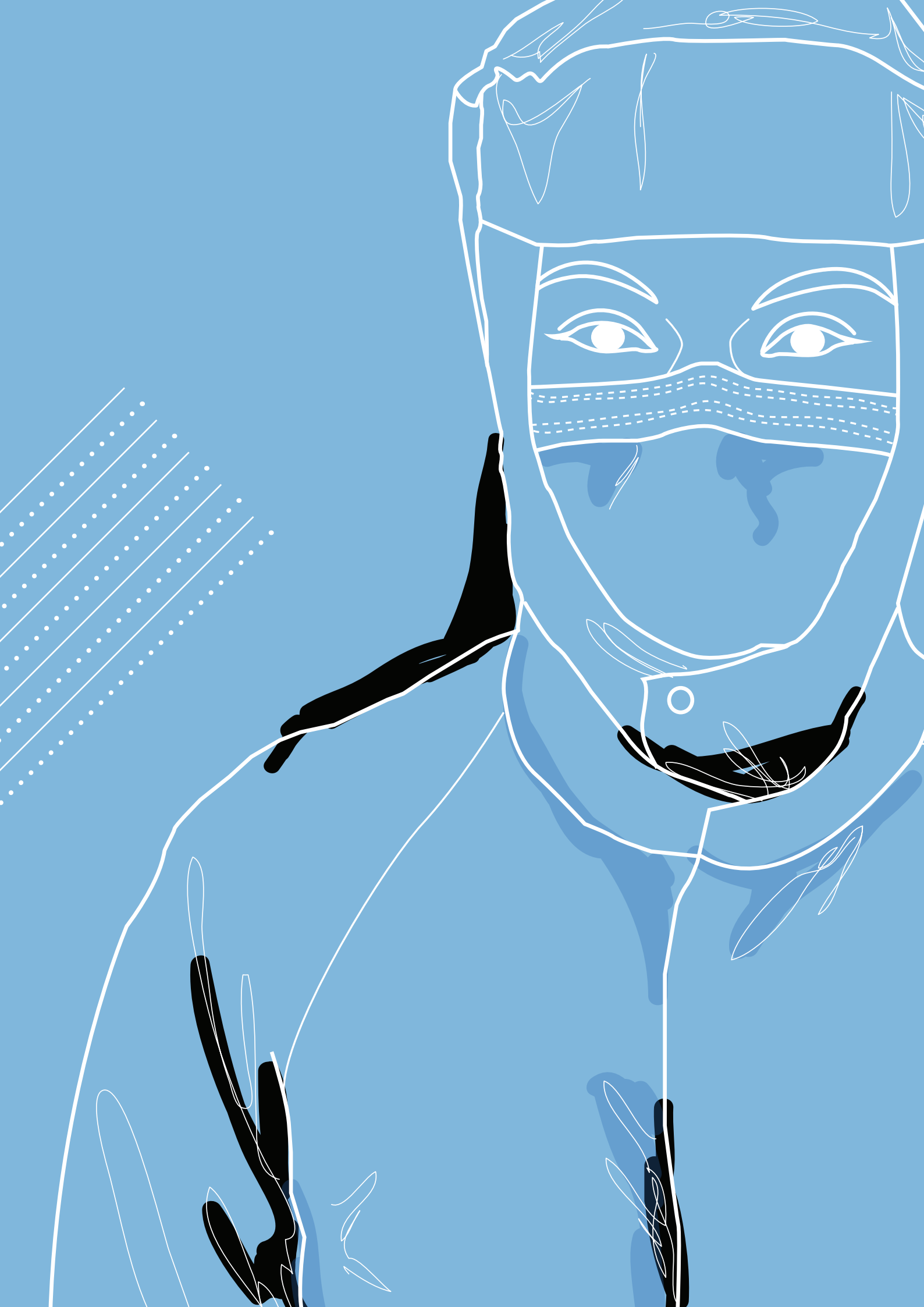
Standards



Also available with blocked upper and/or lower vents.

BIOCCLEAM'R
REUSABLE

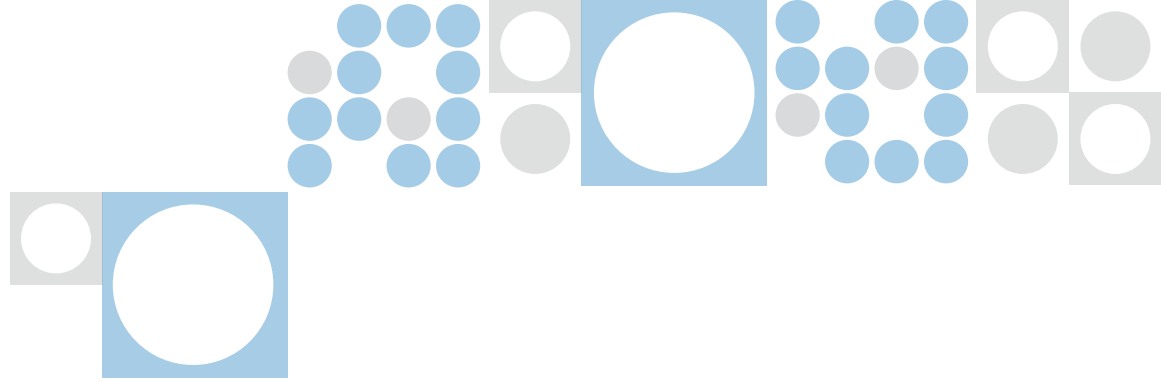






René Reusable™

Siren of Strength,
Diva of Durability,
the Antistatic Controller of
Cleanroom Contamination



{ about }

BioClean-R™ Reusable Garments

Features & Benefits

Within the BioClean-R™ reusable garment range there is a combination to suit your needs, offering comfort with protection.

The BioClean-R range is designed and manufactured from lightweight, non-linting monofilament polyester materials, suitable for use in either sterile or non-sterile cleanroom environments.

Providing a full head-to-toe coverage solution in a variety of combinations, the range includes coveralls, hoods, overboots, lab coats, tunics and trousers. Where sterilization is required, we use material compatible with gamma irradiation or autoclaving.

FAQs

What materials are the garments made from?

They are made from 100% monofilament polyester with a carbon grid woven into the material to provide antistatic properties.

I have been told you should not have pockets on cleanroom garments; why is this?

Pockets are dust-traps and as such increase the risk of contamination getting into your cleanroom.

How should the garments be cleaned? Can I take them home to wash?

Cleanroom garments should only be laundered by dedicated cleanroom laundries.

Can I use my new reusable garments purchased from you straight away after I receive them?

No - the garments will not have been laundered. You will need to speak to your laundry provider and ensure they can provide the specialist service required to clean the garments to the correct standards.

How do I know my garments have been cleaned correctly for use in the cleanroom?

Your specialist laundry provider will carry out particle and fibre counts on the washed garments to ensure they are within the acceptable limits of the test standard ASTM F51-00. A Certificate of Conformity will give you the assurance that the correct results have been achieved.

What is Filtration Efficiency and why is it important?

The filtration efficiency is the fabric's ability to prevent particles from passing from one side of the material to the other. If you think of the fabric as a filter, it prevents particles from the wearer penetrating through the fabric and into the clean environment. The filtration efficiency is expressed as a percentage and essentially it is the percentage of particles of a given size that are prevented from getting through the fabric, so the higher the percentage, the greater the efficiency.

Fabric Specification

MT12

Typical Application: ISO 4 ISO 5 ISO 6 ISO 7

TEST	UNIT	TEST METHOD	WARP	WEFT
Yarn	Denier		PHY 75D	PHY 75D
Tensile Strength	ibf	ASTM D5034-1995 C.R.E. Grab Method	83	63.1
Tearing Strength	ibf	ASTM D2261-1996 C.R.E. single tongue	1.5	1.3
Density	Threads/Inch		168 x 94	
ECF			Kanebo Beltron	
Composition			99% Polyester / 1% Carbon	
Weave			Taffeta (5mm grid)	
Dimension	Inch		58" / 60"	
Weight	gr/m ²		95	
Air Permeability	cm ³ /cm ² /sec	ASTM D 737 Fraxier Method	2.7	
Moisture Permeability	gr/m ² /24h	ASTM E 96-2000	6822.6	
Friction Static Voltage	Volts	JIS-L1094-1997	Below 10	
Surface Resistivity	Ω/SQ	ASTM D 257	7.5 x 10 ⁷	
Static Decay	SEC	FTS M4046 S101C	1.5	
Filtration Efficiency 0.3-0.5μm	%	IES RP-CC-C03-87-T Modified	92-94	
Abrasion Resistant Cycles	Cycle	ASTM D 3886-99 UNIV. Diaphragm	420	

MT811

Typical Application: ISO 4 ISO 5 ISO 6 ISO 7

TEST	UNIT	TEST METHOD	WARP	WEFT
Yarn	Denier		FY 75D	FY 100D
Tensile Strength	KG		98.5	80.5
Density	Threads/Inch		192	92
ECF	K B Seiren		Beltron 20D	
Composition			99% Polyester / 1% Carbon	
Weave			½ Twill (5mm Grid)	
Dimension	Inch x Yd		58" / 60"	
Weight	gr/Sqmt		113	
Air Permeability	cc/cm ² /sec	JIS-L1096	8.5	
Moisture Permeability	gr/m ² /hr	JIS-L1099	450	
Friction Static Voltage	Volts	JIS-L1094B	80	
Surface Resistivity	Ohms/Sq	ASTM-D257	10 ⁷ - 10 ⁹	
Static Decay 5,000V – 500V	Sec	FTS M4046 S101C	<0.1	
Filtration Efficiency 0.3-0.5µm	%	IES RP-CC-003-87-T MODIFIED	75 - 80	

Fabric Specification (cont.)

MT031

Typical Application: ISO 4 ISO 5 ISO 6 ISO 7

TEST	UNIT	TEST METHOD	WARP	WEFT
Yarn	Denier		FY 75D	FY 75D
Tensile Strength	KG		72	46
Density	Threads/Inch		193	120
ECF	K B Seiren		B-31 5mm	B-31 5mm
Composition			99% Polyester / 1% Carbon	
Weave			2/3 Twill (5mm Grid)	
Dimension	Inch x Yd		58" / 60"	
Weight	gr/m ²		109	
Air Permeability	cc/cm ² /sec	JIS – L 1096	3 - 4	
Moisture Permeability	gr/m ² /hr	JIS – L 1099	310	
Friction Static Voltage	Volts	JIS – L 1094B	50 - 100	
Surface Resistivity	Ohms/Sq	ASTM D257	10 ⁷ - 10 ⁹	
Static Decay 5,000V – 500V	Sec	FTS M4046 S101C	<0.1	
Filtration Efficiency 0.3-0.5µm	%	IES RP-CC-003-87-T MODIFIED	93 - 95	

Undergarment Fabric Specification

WF-FQ181

Typical Application: ISO 4 as undergarments
 ISO 5 as undergarments
 ISO 8 as garments

TEST	UNIT	WARP	WEFT
Yarn		Polyester 75D/72f	Polyester 75D/72f
Density	Threads/Inch	125 ends	95 ends
Composition	ASTM-D-629	100% Polyester filament yarn	
Weave		Plain	
Width	Inch	58"	
Weight	gr/m ² / gr/yd	80 / 110	
Application	Undergarments		

Cleanroom Classification Standards

CLEANROOM CLASSIFICATION STANDARDS						
ISO 14644	ISO-3	ISO-4	ISO-5	ISO-6	ISO-7	ISO-8
US Fed. Std. 209	1	10	100	1,000	10,000	100,000
GMP-guideline EU			A/B		C	D

GARMENT TYPE						
	ISO-3	ISO-4	ISO-5	ISO-6	ISO-7	ISO-8
Undergarments	R	R	R	AS	AS	AS
Hair Cover (Bouffant)	R	R	R	R	R	R
Hood	R	R	R	AS	AS	AS
Coat	NR	NR	AS	AS	R	R
Coverall	R	R	R	R	AS	AS
Two Piece	NR	NR	AS	AS	AS	AS
Overshoes	NR	NR	AS	AS	R	R
Overboots	R	R	R	R	AS	AS
Suggested Frequency Change	Per Entry	Per Entry	Daily	3 per week	2 per week	2 per week

R - Recommended
 NR - Not Recommended
 AS - Application Specific

Source: Institute of Environmental Science & Technology IEST-RP CC003.3

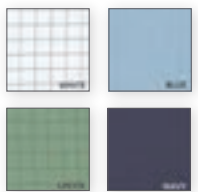
STC 001

BIOCLEAN-R™ COVERALL

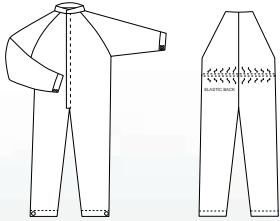
Product Details



Material Colours



Product Drawing



{ STC001 }
BIOCLEAN-R™ COVERALL

Key Features

- Raglan sleeves
- Centre fastening zip with YKK slider
- Elasticated back
- Stud wrists
- Stud ankles

Fabric

- MT811
- MT031
- MT12

Size

- Small, Medium, Large, X-Large, XX-Large

Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7

STC
002

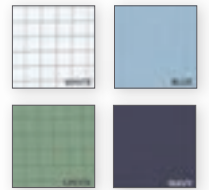
**BIOCLEAN-R™
COVERALL**



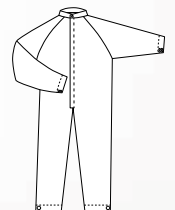
Product Details



Material Colours



Product Drawing



{ STC002 }
BIOCLEAN-R™ COVERALL

Key Features

- Raglan sleeves
- Stud neck
- Centre fastening zip with YKK slider
- Stud wrists
- No elastic in back
- Stud ankles

Fabric

MT811, MT031, MT12

Size

Small, Medium, Large, X-Large, XX-Large

Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7



Suitable for gamma irradiation



{ STC 003 }

BIOCLEAN-R™ COVERALL

Key Features

- Raglan sleeves
- Centre fastening zip with YKK slider
- Elasticated back
- Lycra wrists
- Stud ankles

Fabric

MT811, MT031, MT12

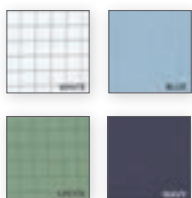
Size

Small, Medium, Large, X-Large, XX-Large

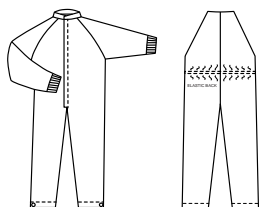
Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7

Material Colours



Product Drawing



Product Details



STH
002

BIOCLEAN-R™
HOOD

Product Details



Material Colours



Product Drawing



{ STH002 }
BIOCLEAN-R™ HOOD

Key Features

- Stud fastening front
- Vertical and horizontal rear stud fastening

Fabric

MT811
MT031
MT12

Size

XX-Small, X-Small,
Small, Medium,
Medium/Large,
Large, X-Large,
XX-Large

Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7



Suitable for gamma irradiation

**BIOCLEAN-R™
HOOD**

**STH
002-S**

{ STH002-S }
BIOCLEAN-R™ HOOD

Key Features

- Stud fastening front
- Vertical and horizontal rear stud fastening
- Yashmak studs

Fabric

MT811, MT031, MT12

Size

XX-Small, X-Small, Small, Medium, Medium/Large, Large, X-Large, XX-Large

Typical Applications

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 4 | <input checked="" type="checkbox"/> ISO 5 |
| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |



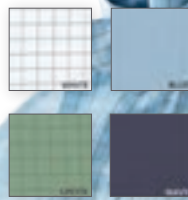
Suitable for gamma irradiation



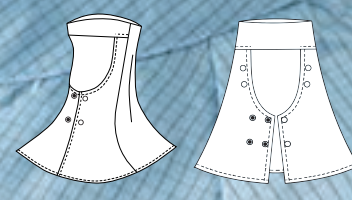
Product Details



Material Colours



Product Drawing



**BIOCLEAN-R™
YASHMAK**

**YASH
01**

{ YASH01 }
BIOCLEAN-R™ YASHMAK

Key Features

- Three male studs each side to attach hood

Fabric

Voile

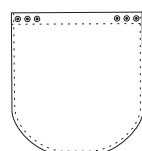
Size

One size

Typical Applications

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 4 | <input checked="" type="checkbox"/> ISO 5 |
| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |

Product Drawing





STH 003

BIOCLEAR-R™ HOOD

{ STH003 }
BIOCLEAR-R™ HOOD

Key Features

- Stud fastening front
- Vertical and horizontal rear stud fastening
- Mesh ears

Fabric

MT811, MT031, MT12

Size

XX-Small, X-Small, Small, Medium, Medium/Large, Large, X-Large, XX-Large

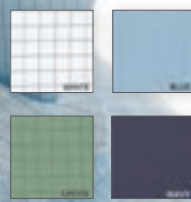
Typical Applications

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 4 | <input checked="" type="checkbox"/> ISO 5 |
| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |

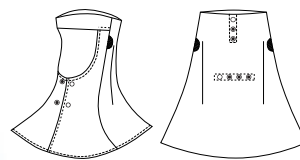
Product Details



Material Colours



Product Drawing



STH 005

BIOCLEAR-R™ HOOD

{ STH005 }
BIOCLEAR-R™ HOOD

Key Features

- Eyes only
- Tie-tape fastenings

Fabric


MT811, MT031, MT12

Size

One size

Typical Applications

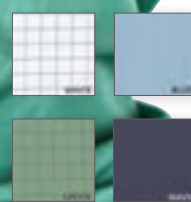
- | | |
|---|---|
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| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |

 Suitable for gamma irradiation

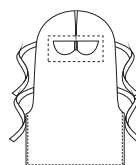
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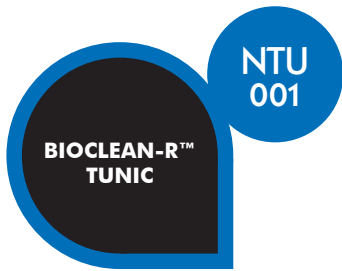


Material Colours



Product Drawing





Material Colours



Product Drawing



{ NTU001 }
BIOCLEAN-R™ TUNIC

Key Features

- Round neck
- Stud fastening shoulder
- Short sleeve

Fabric

WF-FQ181

Size

X-Small, Small, Medium, Large, X-Large, XX-Large

Typical Applications

- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment



NTU 002
BIOCLEAN-R™ TUNIC



NTU 003
BIOCLEAN-R™ TUNIC

{ NTU002 }

BIOCLEAN-R™ TUNIC

Key Features

- Round neck
- Stud fastening shoulder
- Long sleeve
- Stud wrists

Material Colours



Fabric

WF-FQ181

Product Drawing



Size

X-Small, Small, Medium, Large, X-Large, XX-Large

Typical Applications

- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment

{ NTU003 }

BIOCLEAN-R™ TUNIC

Key Features

- Round neck
- Stud fastening front
- Long sleeve
- Lycra wrists

Material Colours



Fabric

WF-FQ181

Product Drawing



Size

X-Small, Small, Medium, Large, X-Large, XX-Large

Typical Applications

- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment



NTR
001

BIOCLEAN-R™
TROUSERS

{ NTR001 }

BIOCLEAN-R™ TROUSERS

Key Features

- Tie-tape waist
- Stud ankles

Fabric

WF-FQ181

Size

X-Small, Small,
Medium, Large,
X-Large, XX-Large

Typical Applications

- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment

Product Details



Material Colours



Product Drawing



NTR
002

BIOCLEAN-R™
TROUSERS

{ NTR002 }

BIOCLEAN-R™ TROUSERS

Key Features

- Elasticated waist
- Stud ankles

Fabric

WF-FQ181

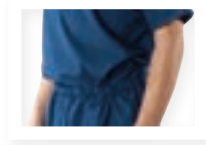
Size

X-Small, Small,
Medium, Large,
X-Large, XX-Large

Typical Applications

- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment

Product Details



Material Colours



Product Drawing



CLC
001

BIOCLEAN-R™
CLASSIC
COAT



{ CLC001 }

BIOCLEAN-R™ CLASSIC COAT

Key Features

- Raglan sleeves
- Front/offside fastening zip with YKK slider & bartack stitching at base
- Mandarin collar
- Stud wrists*
- Stud neck

*Also available with lycra wrists (CLC002)

Fabric

MT811, MT031,
MT12

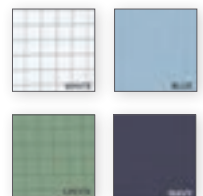
Size

XX-Small, X-Small,
Small, Medium,
Large, X-Large,
XX-Large, XXX-Large

Typical Applications

- ISO 7
- ISO 8
- Uncontrolled

Material Colours



Product Drawing





{ ALB001 }
BIOCLEAN-R™
ALBANY COAT

Key Features

- Raglan sleeves
- Centre fastening zip with YKK slider
- Mandarin collar
- Stud wrists*

*Also available with lycra wrists (ALB002)

Fabric

MT811, MT031,
 MT12

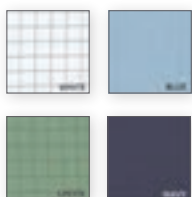
Size

XX-Small, X-Small,
 Small, Medium,
 Large, X-Large,
 XX-Large, XXX-Large

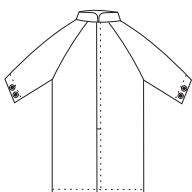
Typical Applications

- ISO 7
- ISO 8
- Uncontrolled

Material Colours



Product Drawing



MOC
001

BIOCLEAN-R™
MOONSHOT
COAT



{ M O C 0 0 1 }

BIOCLEAN-R™
MOONSHOT COAT

Key Features

- Stud front
- Open wrists*
- One top pocket
- Two bottom pockets

*Also available with stud wrists (MOC002)

Fabric

MT811, MT031,
MT12

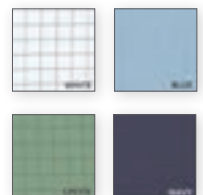
Size

XX-Small, X-Small,
Small, Medium,
Large, X-Large,
XX-Large, XXX-Large

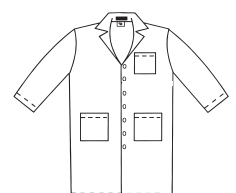
Typical Applications

- ISO 8
- Uncontrolled

Material Colours



Product Drawing





STO
001



Material Colours



Product Drawing



{ STO001 }
BIOCLEAR-R™ OVERBOOTS

Key Features

- Elasticated top
- Elasticated bridge
- Elasticated ankle
- 3mm crepe sole

Fabric

MT811
MT031
MT12

Size

XX-Small, X-Small,
Small, Medium,
Large, X-Large,
XX-Large,
XXX-Large

Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7



STO
015

BIOCLEAR-R™
OVERBOOTS



STO
022

BIOCLEAR-R™
OVERBOOTS



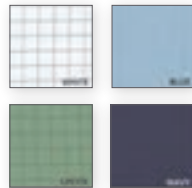
{ STO015 }

BIOCLEAR-R™ OVERBOOTS

Key Features

- Toggle top fastening
- Toggle ankle fastening
- Toggle bridge fastening
- Grey sole

Material Colours



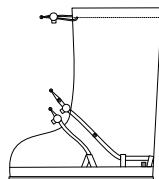
Fabric

MT811, MT031,
MT12

Size

X-Small, Small,
Medium, Large,
X-Large, XX-Large,
XXX-Large

Product Drawing



Typical Applications

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 4 | <input checked="" type="checkbox"/> ISO 5 |
| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |



Suitable for
gamma
irradiation

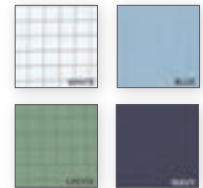
{ STO022 }

BIOCLEAR-R™ OVERBOOTS

Key Features

- Tie-tape top fastening
- Tape and buckle ankle fastening
- One female stud either side to attach coverall
- Studs on webbing
- Boat sole

Material Colours



Fabric

MT811, MT031,
MT12

Size

X-Small, Small,
Medium, Large,
X-Large, XX-Large

Product Drawing



Typical Applications

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 4 | <input checked="" type="checkbox"/> ISO 5 |
| <input checked="" type="checkbox"/> ISO 6 | <input checked="" type="checkbox"/> ISO 7 |



Suitable for
gamma
irradiation



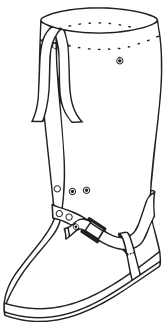
STO
013



Material Colours



Product Drawing



{ STO013 }
BIOCLEAR-R™ OVERBOOTS

Key Features

- Tie-tape top fastening
- Tape and buckle ankle fastening
- One female stud either side to attach coverall
- Studs on webbing
- Grey sole

Fabric

MT811
MT031
MT12

Size

X-Small, Small,
Medium, Large,
X-Large, XX-Large,
XXX-Large

Typical Applications

- ISO 4
- ISO 5
- ISO 6
- ISO 7

Suitable for gamma irradiation



SKO 001

BIOCLEAN-R™ OVERSHOES

{ SKO001 }
BIOCLEAN-R™ OVERSHOES

Key Features

- Elasticated top
- Elasticated bridge
- 3mm crepe sole

Fabric

MT811, MT031, MT12

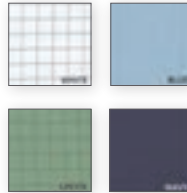
Size

XX-Small, X-Small, Small, Medium, Large, X-Large, XX-Large, XXX-Large

Typical Applications

- ISO 6
- ISO 7

Material Colours



Product Drawing



SKO 002

BIOCLEAN-R™ OVERSHOES

{ SKO002 }
BIOCLEAN-R™ OVERSHOES

Key Features

- Elasticated top
- Elasticated bridge
- Grey sole

Fabric

MT811, MT031, MT12

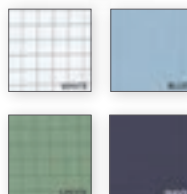
Size

XX-Small, X-Small, Small, Medium, Large, X-Large, XX-Large, XXX-Large

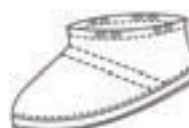
Typical Applications

- ISO 6
- ISO 7

Material Colours



Product Drawing



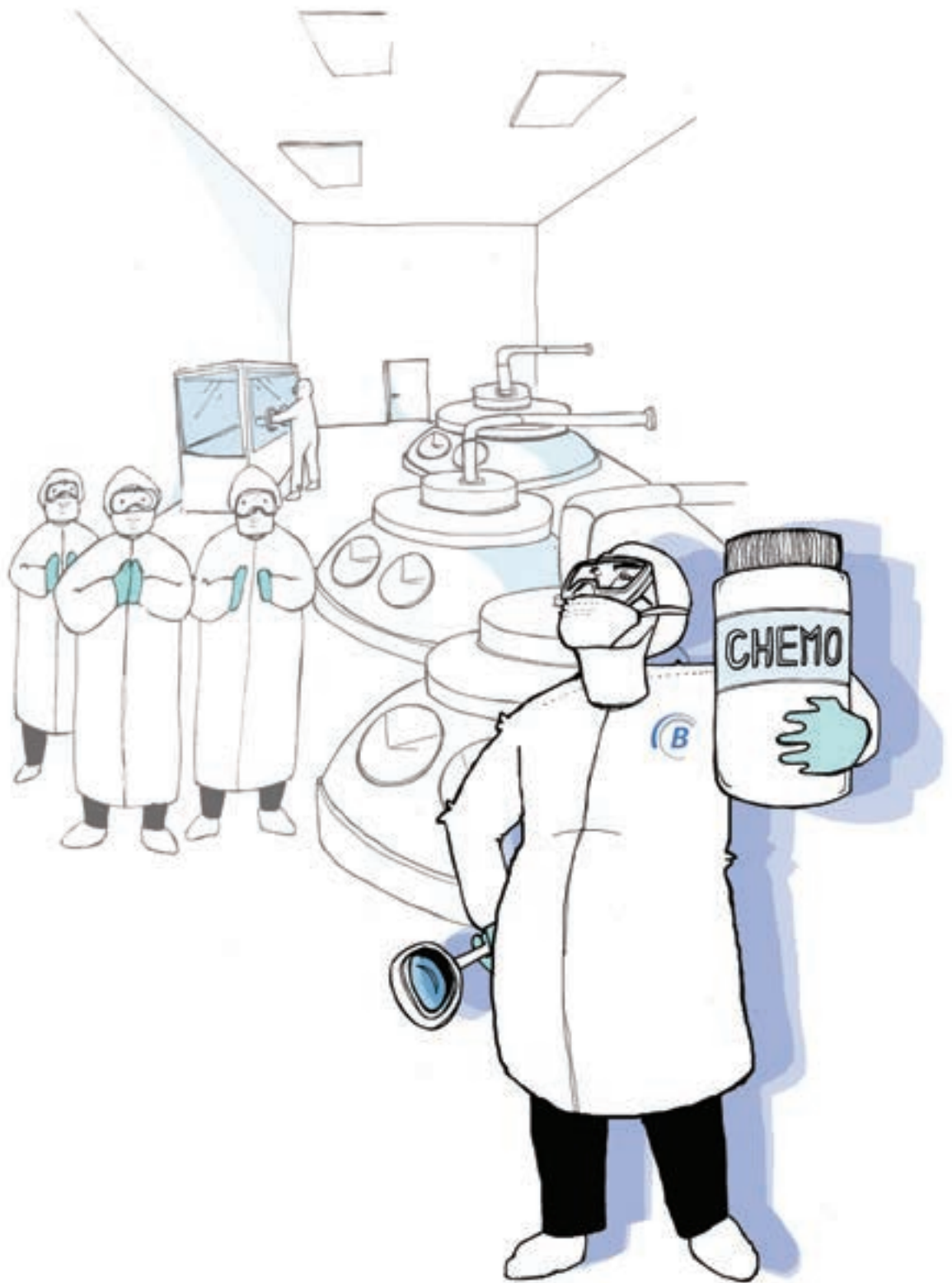


BIROCHENKO

CC *safe* **FACTORY**

AWARD





Dr.IsoLator™

Doctor of Defence,
Professor of Protection,
the Guardian of Cleanroom
Chemo Safety Wear



{ about }

BioClean™ Chemo Safety Wear

Features & Benefits

The BioClean™ Chemotherapy range provides full head-to-toe coverage in various combinations of coveralls, hoods, overboots, sleeve covers, aprons, goggles, facemasks and gloves, and is available in both sterile and non-sterile to suit all controlled environments. BioClean-D™ coveralls, manufactured from specially constructed, lightweight, low-linting CleanTough™ material, are classified as Category 3 Type 5 and 6, and provide the base protection layer. BioClean-C™ chemotherapy aprons and sleeve covers provide additional protection without compromising comfort.

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 EN374-3:2003, 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 Chemotherapy 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 Chemo
Safety Wear Video**

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 EN 374-3:2003 as, quite simply, this benchmark is not safe when assessing the suitability of a glove or garment for protection against cytotoxic drugs. Unfortunately, many of our competitors still use this standard, and the results will give you a false sense of security.

To illustrate how misleading EN 374-3:2003 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 EN 374-3:2003 (Table 2), the standard used by most of our competitors. The results show no breakthrough after 480 minutes at the 1.00 µg/cm²/min level. We could have chosen to publish these optically first-class results, and foregone testing using ASTM D6978-05, but we know that exposure to even tiny doses of chemotherapy 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 EN 374-3:2003 and ASTM D6978-05

DIFFERENCE	EN 374-3:2003*	ASTM D6978-05 **	CONSEQUENCE
Thickness of the Test Specimens	Sample has to be taken from the palm of the glove.	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 EN 374-3:2003 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	A minimum of three chemicals must be used for the test. None of the chemicals needs to be a chemotherapy drug.	A minimum of nine chemotherapy drugs must be used for the test. Seven of them are pre-defined by the standard; the other two must be selected from a pre-defined list.	The EN 374-3:2003 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/cm ² /min.	Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01 µg/cm ² /min.	The ASTM D6978-05 test limit is set at 100 th of the EN 374-3:2003 limit. This requirement is far more stringent and reflects the potential hazards presented by chemotherapy drugs.

* **EN 374-3:2003** Protective gloves against chemicals and microorganisms – determination of resistance to permeation by chemicals

** **ASTM D6978-05** Standard practice for assessment of resistance of medical gloves to permeation by chemotherapy drugs

Table 1: Breakthrough detection time (minutes) as per ASTM D6978-05Breakthrough 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	CLEAN TOUGH™ FABRIC
	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	>480
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	>480
Thiotepa	166.1	195.5	377	15.4	47.7	107.7	30.5	111	0.52	>480

BioClean™ garments are made from CleanTough™ 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: Breakthrough detection time (minutes) as per EN 374-3:2003Breakthrough 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)



CHEMO
SAFETY
WEAR

sterile

BSNS

BIOCLEAN
SUPRENE™

non-latex double-gloving

{ BSNS }

BIOCLEAN SUPRENE™ STERILE NEOPRENE GLOVES
Enhanced softness & strength

- 300mm/12" length
- Double-donnable
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Mint green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

BSNS-60
BSNS-65
BSNS-70
BSNS-75
BSNS-80
BSNS-85
BSNS-90

Size

6.0
6.5
7.0
7.5
8.0
8.5
9.0

Standards

CE 0120

ASTM D6978-05



STERILE / CSW

BENS

BIOCLEAN
EMERALD™

super-sensitive accelerator-free

{ BENS }

BIOCLEAN EMERALD™ STERILE NITRILE GLOVES
Super-sensitive & accelerator-free

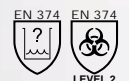
- 300mm/12" length
- Textured for enhanced grip
- Double-donnable
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

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

Standards

CE 0120

ASTM D6978-05



LEVEL 2



BNPS

**BIOCLEAN
N-PLUS™**



BPZS

**BIOCLEAN
P-ZERO™**

{ BNPS }

BIOCLEAN N-PLUS™ STERILE NITRILE GLOVES
Elbow length for extra protection

- 400mm/16" length
- Textured
- Elbow length
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- White
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

Size

Standards

BNPS60	6.0
BNPS65	6.5
BNPS70	7.0
BNPS75	7.5
BNPS80	8.0
BNPS85	8.5
BNPS90	9.0
BNPS100	10.0



{ BPZS }

**BIOCLEAN P-ZERO™ STERILE
POLYCHLOROPRENE GLOVES**
Excellent grip & cytotoxic protection

- 300mm/12" length
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

Re-order Code

Size

Standards

BPZS60	6.0
BPZS65	6.5
BPZS70	7.0
BPZS75	7.5
BPZS80	8.0
BPZS85	8.5
BPZS90	9.0





BUPS **BIOCLEAN ULTIMATE™**



View Fusion Glove Video


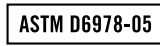
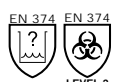


S-BFAP **BIOCLEAN FUSION™**

{ B U P S }

BIOCLEAN ULTIMATE™ STERILE POLYCHLOROPRENE GLOVES
Excellent sensitivity & cytotoxic protection



- 300mm/12" length
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Hand specific
- Natural
- Packing - 20 bags of 10 pairs (200 pairs) per carton

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

{ S - B F A P }

BIOCLEAN FUSION™ STERILE POLYCHLOROPRENE GLOVES
Excellent grip & feels like latex

- 300mm/12" length
- Textured
- ISO Class 4 & EU GMP Grade A compatible
- Double-donnable
- Ambidextrous
- Green
- Packing - 20 bags of 10 pairs (200 pairs) per carton

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

STERILE / CSW



BDBS-G

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK
WITH NECK
GUARD**



BDBS

**BIOCLEAN DB™
POUCH-STYLE
FACEMASK**

{ B D B S - G }

BIOCLEAN DB™ STERILE POUCH-STYLE FACEMASK WITH NECK GUARD

Breathability with extra protection

- ISO Class 4 & EU GMP Grade A compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Spunbonded polyester neck guard
- Packing – 10 bags of 20 individually packed facemasks (200 pieces) per carton

Re-order Code

BDBS-G

{ B D B S }

BIOCLEAN DB™ STERILE POUCH-STYLE FACEMASK

Breathability & comfort

- ISO Class 4 & EU GMP Grade A compatible
- Knitted headloop
- Patented spacer maintains clear breathing space
- Malleable nose-band
- Packing – 10 bags of 20 individually packed facemasks (200 pieces) per carton

Re-order Code

BDBS

S-BCAS

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
APRON WITH
SLEEVES**

comfort
— AND —
protection



{ S - B C A S }

BIOCLEAN-C™ STERILE CHEMOTHERAPY PROTECTIVE APRON WITH SLEEVES
Comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- Adjustable neck fastening
- Tie-tapes at waist
- Attached sleeves with elasticated cuffs
- Ultrasonically bonded seams with protective tape
- CleanTough™ fabric
- Packing - 40 individually packed aprons per carton (S-BCAS-XL 35 aprons per carton)

Re-order Code

S-BCAS-S
S-BCAS-M
S-BCAS-L
*S-BCAS-XL

Size

Small
Medium
Large
XLarge

Standard



*Non-stock size. Please contact for MOQ and lead time.

S-BCDA

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
APRON –
SLEEVELESS**

{ S - B C D A }

**BIOCLEAN-C™ STERILE CHEMOTHERAPY
PROTECTIVE APRON – SLEEVELESS**
Comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- Adjustable neck fastening
- Tie-tapes at waist
- CleanTough™ fabric
- Packing - 50 individually packed aprons per carton

Re-order Code

S-BCDA-S
S-BCDA-M
S-BCDA-L

Size

Small
Medium
Large

Standards



S-BCSC

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
SLEEVE COVER**

{ S - B C S C }

**BIOCLEAN-C™ STERILE CHEMOTHERAPY
PROTECTIVE SLEEVE COVER**
Designed for protection

- ISO Class 4 & EU GMP Grade A compatible
- Elasticated arms and elasticated fabric cuffs
- Ultrasonically bonded seams with protective tape
- CleanTough™ fabric
- Packing - six bags of 15 pairs (90 individually packed pairs) per carton

Re-order Code

S-BCSC

Size

Universal

Standards



S-BDCCT

**BIOCLEAN-D™
COVERALL
WITH COLLAR**



comfort
— AND —
protection

{ S - B D C C T }

BIOCLEAN-D™ STERILE COVERALL WITH COLLAR
Exceptional comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4" - 5'6")	S-BDCCT-S
Medium	92-100cm (36"-39")	170-176cm (5'6" - 5'9")	S-BDCCT-M
Large	100-108cm (39"-42")	176-182cm (5'9" - 6'0")	S-BDCCT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0" - 6'2")	S-BDCCT-XL
XXLarge	108-116cm (42"-45")	188-194cm (6'2" - 6'4")	S-BDCCT-XXL
*XXXLarge	124-132cm (48"-51")	194-200cm (6'4" - 6'6")	S-BDCCT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6" - 6'8")	S-BDCCT-XXXXL

*Non-stock size. Please contact for MOQ and lead time.



S-BDHD

BIOCLEAN-D™
HOOD

{ S - B D H D }

BIOCLEAN-D™ STERILE HOOD
Comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated face opening with reinforced edges
- Packing - six bags of 30 hoods (180 individually packed hoods) per carton

Re-order Code
S-BDHD

Size
Universal

Standards



S-BDOB

BIOCLEAN-D™
OVERBOOTS

{ S - B D O B }

BIOCLEAN-D™ STERILE OVERBOOTS
Slip-resistant sole

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated top with secure ties and slip-resistant soles
- Packing - five bags of 15 pairs (75 individually packed pairs) per carton

Re-order Code
S-BDOB

Size
Universal

Standards



S-BDCHT

BIOCLEAN-D™
COVERALL
WITH HOOD



exceptional protection — AND — low-linting

{ S - B D C H T }

BIOCLEAN-D™ STERILE COVERALL WITH HOOD Exceptional comfort & protection

- ISO Class 4 & EU GMP Grade A compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30"-36")	158-164cm (5'2"- 5'4")	S-BDCHT-XS
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	S-BDCHT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	S-BDCHT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	S-BDCHT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	S-BDCHT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	S-BDCHT-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	S-BDCHT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6"- 6'8")	S-BDCHT-XXXL

*Non-stock size. Please contact for MOQ and lead time.





BioClean
Clearview
Single Use
Goggles Video



BCGS1

BIOCLEARVIEW™
SINGLE USE
GOGGLES



S-BCPM

BIOCLEAR
CHEMPREP™
PREP MAT

{ B C G S 1 }

**BIOCLEARVIEW™ STERILE
SINGLE USE GOGGLES**

Anti-fog & optically correct

- Lightweight ultra-soft PVC
- Indirect ventilation system
- Non-linting head band
- Toughened polycarbonate lens with anti-fog & anti-scratch coating
- ISO Class 4 & EU GMP Grade A compatible
- Packing – six bags of 10 individually packed goggles (60 goggles) per carton

Re-order Code

BCGS1

Standards



Autoclavable goggles available - see page 139

{ S - B C P M }

BIOCLEAR CHEMPREP™ STERILE PREP MAT
Highly absorbent

- Mesh upper layer for even distribution
- Highly absorbent middle layer
- Impermeable bottom layer
- Low-linting, latex-free, triple laminate
- ISO Class 5 & EU GMP Grade A compatible
- Blue colour to easily identify spills
- Available in two sizes

Re-order Code

S-BCPM-4025B

Size

40cm x 25cm – four bags of
50 double bagged mats
(200 mats) per carton

S-BCPM-5640B

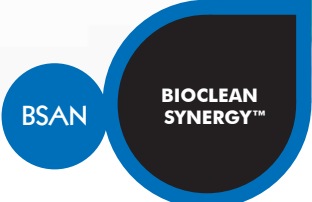
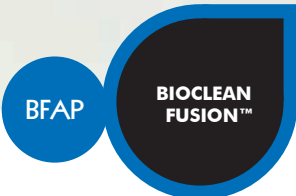
56cm x 40cm - four bags of
25 double bagged mats (100
mats) per carton

CHEMICAL
SAFETY
WEAR

non-sterile



Fusion
Gloves Video



{ BFAP }

**BIOCLEAR FUSION™ NON-STERILE
POLYCHLOROPRENE GLOVES**
Protects like nitrile – feels like latex

- 300mm/12" length
- Textured
- Exceptional tactility & comfort
- ISO Class 4 compatible
- Double-donnable
- Ambidextrous
- Green
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

BFAP-XS
BFAP-S
BFAP-M
BFAP-L
BFAP-XL
BFAP-XXL

Size

X-Small
Small
Medium
Large
X-Large
XX-Large

Standards



{ BSAN }

**BIOCLEAR SYNERGY™ NON-STERILE NITRILE
GLOVES**
Super-sensitive & accelerator-free

- 300mm/12" length
- Textured
- ISO Class 4 compatible
- Double-donnable
- Ambidextrous
- Green
- Packing - 10 bags x 100 gloves (1000 gloves) per carton

Re-order Code

BSAN-XS
BSAN-S
BSAN-M
BSAN-L
BSAN-XL
BSAN-XXL

Size

X-Small
Small
Medium
Large
X-Large
XX-Large

Standards



NON-STERILE / CSW

BCAS

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
APRON WITH
SLEEVES**



comfort — AND — protection



{ BCAS }

BIOCLEAN-C™ NON-STERILE CHEMOTHERAPY PROTECTIVE APRON WITH SLEEVES
Comfort & protection

- ISO Class 4 compatible
- Adjustable neck fastening
- Tie-tapes at waist
- Attached sleeves with elasticated cuffs
- Ultrasonically bonded seams with protective tape
- CleanTough™ fabric
- Packing - 40 individually packed aprons per carton (BCAS-XL - 35 aprons per carton)

Re-order Code

BCAS-S
BCAS-M
BCAS-L
*BCAS-XL

Size

Small
Medium
Large
XLarge

Standard



*Non-stock size. Please contact for MOQ and lead time.

BCDA

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
APRON –
SLEEVELESS**

{ BCDA }

**BIOCLEAN-C™ NON-STERILE CHEMOTHERAPY
PROTECTIVE APRON – SLEEVELESS**
Comfort & protection

- ISO Class 4 compatible
- Adjustable neck fastening
- Tie-tapes at waist
- CleanTough™ fabric
- Packing - 50 individually packed aprons per carton

Re-order Code

BCDA-S
BCDA-M
BCDA-L

Size

Small
Medium
Large

Standards



BCSC

**BIOCLEAN-C™
CHEMOTHERAPY
PROTECTIVE
SLEEVE COVER**

{ BCSC }

**BIOCLEAN-C™ NON-STERILE
CHEMOTHERAPY PROTECTIVE SLEEVE
COVER**

Designed for protection

- ISO Class 4 compatible
- Elasticated arms and elasticated fabric cuffs
- Ultrasonically bonded seams with protective tape
- CleanTough™ fabric
- Packing - six bags of 15 pairs (90 individually packed pairs) per carton

Re-order Code

BCSC

Size

Universal

Standards



NON-STERILE / CSW

BDCCT

BIOCLEAN-D™
COVERALL
WITH
COLLAR



exceptional comfort — AND — protection

{ BDCCT }

BIOCLEAN-D™ NON-STERILE COVERALL WITH COLLAR Exceptional comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	S-BDCCT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	S-BDCCT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	S-BDCCT-L
XXLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	S-BDCCT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	S-BDCCT-XXL
*XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	S-BDCCT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6"- 6'8")	S-BDCCT-XXXXL

*Non-stock size. Please contact for MOQ and lead time.



NON-STERILE / CSW

BDHD

**BIOCLEAN-D™
HOOD**

{ BDHD }

BIOCLEAN-D™ NON-STERILE HOOD
Comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated face opening with reinforced edges
- Packing - six bags of 30 pieces (180 pieces) per carton

Re-order Code
BDHD

Size
Universal

Standards



BDOB

**BIOCLEAN-D™
OVERBOOTS**

{ BDOB }

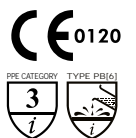
BIOCLEAN-D™ NON-STERILE OVERBOOTS
Slip-resistant sole

- ISO Class 4 compatible
- PPE Category 3 Type PB [6]
- Antistatic, low-linting & durable CleanTough™ fabric
- Elasticated top with secure ties and slip-resistant soles
- Packing - five bags of 30 pieces (150 pieces) per carton

Re-order Code
BDOB

Size
Universal

Standards



NON-STERILE / CSW

BDCHT

BIOCLEAN-D™
COVERALL
WITH HOOD



comfort
— AND —
protection

{ BDCHT }

BIOCLEAN-D™ NON-STERILE COVERALL WITH HOOD
Exceptional comfort & protection

- ISO Class 4 compatible
- PPE Category 3 Type 5 & 6
- Antistatic, low-linting & durable CleanTough™ fabric
- Thumb loop to ensure secure hold
- Zip with front cover
- Elasticated back, cuffs and ankles
- Packing - 20 individually packed coveralls per carton (XXXL & XXXXL - 15 pieces per carton)

Size	Chest	Height	Re-order Code
XSmall	76-84cm (30"-33")	158-164cm (5'2"- 5'4")	BDCHT-XS
Small	84-92cm (33"-36")	164-170cm (5'4"- 5'6")	BDCHT-S
Medium	92-100cm (36"-39")	170-176cm (5'6"- 5'9")	BDCHT-M
Large	100-108cm (39"-42")	176-182cm (5'9"- 6'0")	BDCHT-L
XLarge	108-116cm (42"-45")	182-188cm (6'0"- 6'2")	BDCHT-XL
XXLarge	116-124cm (45"-48")	188-194cm (6'2"- 6'4")	BDCHT-XXL
XXXLarge	124-132cm (48"-51")	194-200cm (6'4"- 6'6")	BDCHT-XXXL
*XXXLarge	132-140cm (51"-54")	200-206cm (6'6"- 6'8")	BDCHT-XXXXL

*Non-stock size. Please contact for MOQ and lead time.



NON-STERILE / CSW



**BIOCLEAN
CLEARVIEW™
AUTOCLAVABLE
GOOGLES**

BCAG

{ BCAG }

BIOCLEAN CLEARVIEW™ AUTOCLAVABLE GOOGLES

Super-soft for unrivalled comfort

- Thermoplastic body
- Lower indirect ventilation system
- Toughened anti-scratch polycarbonate lens
- Non-linting head band
- Can be worn over eyeglasses
- ISO Class 4 & EU GMP Grade A compatible when sterilized
- > 40 autoclave cycles
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

Also available with blocked upper vents

Re-order Code

BCAG
BCAG-SL
BCAG-SS

Goggles
Spare Lens
Spare Strap

Standards



**BioClean Clearview
Autoclavable
Goggles Video**



**BIOCLEAN
CLEARVIEW™
AUTOCLAVABLE
PANORAMIC
GOOGLES**

BCAP

{ BCAP }

BIOCLEAN CLEARVIEW™ AUTOCLAVABLE PANORAMIC GOOGLES

Extra wide field of vision

- Thermoplastic body
- Indirect ventilation system
- Toughened anti-scratch polycarbonate lens
- Non-linting head band
- Extra wide for panoramic vision
- Can be worn over eyeglasses
- ISO Class 4 & EU GMP Grade A compatible when sterilized
- Lightweight & comfortable
- > 40 autoclave cycles
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

Re-order Code

BCAP
BCAP-SL
BCAP-SS

Goggles
Spare Lens
Spare Strap

Standards



**BioClean Clearview
Autoclavable
Goggles Video**



BOOKS ACCESSORIES

ACCESSORIES

ACCESSORIES

ACCESSORIES

BSTC

BIOCLEAR
STEELE™ STEEL
TOECAP
SHOES

slip-resistant — AND — antistatic



NEW

{ BSTC }

BIOCLEAR STEELE™ STEEL TOECAP SHOES Slip-resistant & antistatic

- Non-sterile
- Slip-resistant
- Antistatic soles and insoles
- White leather upper
- Steel toecap
- Double density (PU/PU) antistatic injection moulded sole
- 200 joules impact resistance
- Water & fuel-oil resistant
- EN 20345:2001 compliant

Re-order Code

BSTC-03
BSTC-04
BSTC-05
BSTC-06
BSTC-07
BSTC-08
BSTC-09
BSTC-10
BSTC-11
BSTC-12

US Size

5
6
7
8
9
10
11
12
13
14

BSTC

BIOCLEAN
DURABLEU™
OVERBOOTS

slip-resistant — AND — high strength

{ BDBL-16 }

BIOCLEAN DURABLEU™ OVERBOOTS
Slip-resistant & high strength

- Non-sterile
- 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
- Antistatic & slip-resistant
- Packing – 50 pieces per sealed bag, eight
bags (400 pieces) per carton

Re-order Code
BDBL-16

EU Size
XL



BDBO

**BIOCLEAN
DURABLEU™
OVERSHOES**

{ B D B O }

BIOCLEAN DURABLEU™ OVERSHOES
Superb protection & durability

- Non-sterile
- 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
- Antistatic & slip-resistant
- Lengths available: 14, 16 & 18 inch
- Packing – 50 pieces per sealed bag, 8 bags (400 pieces) per carton

Re-order Code

BDBO-14
BDBO-16
BDBO-18

Size

14" (356mm) Blue
16" (400mm) Blue
18" (457mm) Blue



S-CPE

**BIOCLEAN
CPE™ STERILE
DISPOSABLE
OVERSHOES**

{ S - C P E }

BIOCLEAN CPE™ STERILE DISPOSABLE OVERSHOES
Durable & strong

- Sterile
- CPE (cast polyethylene)
- Very low particle shedding
- Heavy-duty construction
- Gamma sterilized
- Dimensions: 400mm (L) x 150mm (H)
- Packing – one pair per sealed bag, 10 pairs per outer bag, 15 outer bags (150 pairs) per carton

Re-order Code

S-CPE165B

Size

400mm



BESD

**BIOCLEAR
SAFESTEP
ESD™
OVERSHOES**

{ B E S D }

BIOCLEAR SAFESTEP ESD™ OVERSHOES
Excellent ESD performance

- Non-sterile
- Spunbonded polypropylene
- Proprietary elastomer coating
- Non-marking conductive carbon filament tape
- Slip-resistant
- Low levels of particulate shedding
- ISO Class 5 compatible
- Packing – 100 pieces per sealed bag, four bags (400 pieces) per carton

Re-order Code
BESD016W

Size
16" (400mm) White



ESD

**BIOCLEAR
ESD™
OVERSHOES
WITH
CONDUCTIVE
TAPE**

{ E S D }

BIOCLEAR ESD™ OVERSHOES WITH CONDUCTIVE TAPE
Excellent ESD performance

- Non-sterile
- Non-marking conductive carbon filament tape
- Non-woven spunbonded polypropylene
- Very low levels of particulate shedding
- ISO Class 5 compatible
- White (16" & 18") and blue (18" only)
- Packing – 100 pieces per sealed bag, 10 bags (1000 pieces) per carton

Re-order Code

Size

ESD016W
ESD018W
ESD018B

16" (400mm) White
18" (457mm) White
18" (457mm) Blue



NSO

**BIOCLEAR
SAFESTEP
NSO™
OVERSHOES**

{ N S O }

BIOCLEAR SAFESTEP NSO™ OVERSHOES
Good grip & durability

- Non-sterile
- Spunbonded polypropylene
- Proprietary elastomer coating
- Slip-resistant
- Low levels of particulate shedding
- ISO Class 5 compatible
- Packing - 100 pieces per sealed bag, four bags (400 pieces) per carton

Re-order Code

Size

NSO016W
NSO018W

16" (400mm) White
18" (457mm) White



{ **BNBC** }

BIOCLEAN™ NOTEBOOKS
Made of the write stuff

- Non-sterile
- Sterilizable and autoclavable
- Constructed from latex-free cleanroom paper
- Spiral and translucent low-linting polypropylene covers
- Low-linting and heat resistant
- High tear and tensile strength
- Packed in an ISO Class 4 cleanroom
- Packing – triple bagged, with each book individually double bagged, and then two books sealed in a third bag

Re-order Code	Size
BNBC-A4-L	A4 Lined
BNBC-A5-L	A5 Lined
BNBC-A5-P	A5 Plain
BNBC-A6-L	A6 Lined

Sterile version available on request

{ **BICP** }

BIOCLEAN ISO LEAF™ CLEANROOM BOND PAPER
Critical environment performance

- Non-sterile
- Processed to ensure ISO Class 4 compatibility
- Latex-free
- A4 (297mm x 210mm), 80gsm
- Individually lot numbered
- Suitable for use with inkjet and laser printers
- Heat resistant
- Smooth surface
- Low particle generation and ion levels
- Blue, green, pink, white and yellow
- Packing – 250 sheets per sealed bag, 10 bags (2500 sheets) per carton

Re-order Code	Size
BICP-A4B80	Blue
BICP-A4G80	Green
BICP-A4Y80*	Yellow
BICP-A4P80	Pink
BICP-A4W80	White

*Non stock item. Please contact for MOQ and lead time.



{ **BACB** }

BIOCLEAN AMPHORA™ CLEANROOM BOTTLES
Clean & secure

- Secure seal for trouble-free use
- Washed with DI water
- Packed under ISO Class 4 conditions
- Open ended tops with moulded soft inserts
- Type II soda-lime glass

Re-order Code	Size
BACB-20	20ml
BACB-40	40ml

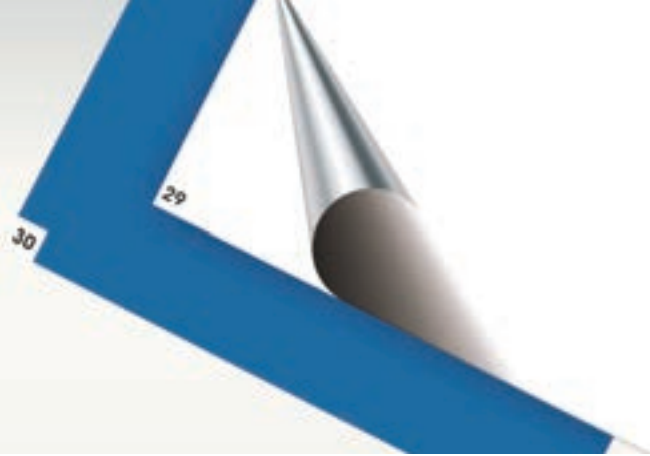


{ **BBC** }

BIOCLEAN™ BBC CLEANROOM BOUFFANT CAP
Ventilation & protection

- Lightweight, soft non-woven polypropylene
- Hypoallergenic
- Latex-free elastic
- Elasticated double stitching
- Non-sterile
- Compatible with a variety of environments
- White and blue
- Packing – 100 pieces per bag, 10 bags (1000 pieces) per carton

Re-order Code	Size	Colour
BBC-W	50cm x 52cm	White
BBC-B	50cm x 52cm	Blue



{ STB / STW }

BIOCLEAR SUPATAC™ TACKY MATS Effective particle control

- Anti-bacterial, environment friendly water based acrylic adhesive
- Low density polyethylene with anti-bacterial finish
- 30 numbered layers per mat
- Available in a variety of sizes
- White and blue
- ISO Class 5 compatible
- Packing – four mats per 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

{ S - B P F P }

BIOCLEAR PERMAFLOW™ STERILE CLEANROOM PEN The write stuff for cleanrooms

- Sterile
- Autoseal ink prevents drying
- Alcohol-resistant labelling
- Fade & water resistant
- Super permanent ink
- Blue, black and red
- ISO Class 4 & EU GMP Grade A compatible
- Packing – one pen per inner bag, 10 pens per outer bag, 20 outer bags (200 pieces) per carton

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



Picture showing BCAG-SL



{ BCAG - SL & BCAH - SL }

BIOCLEAR CLEARVIEW™ AUTOCLAVABLE GOGGLES LENS Replacement lens for BCAG & BCAH model

- Toughened polycarbonate lens
- Autoclavable
- EN 166:2001 Optical Class 1
- Packing – one lens per bag, 10 bags per inner box, 10 boxes (100 pieces) per carton

Re-order Code
BCAG-SL
BCAH-SL

{ B A F S }

BIOCLEAR™ STERILE ANTI-FOG SPRAY Uncompromised vision

- Eliminates fogging
- Quick & easy application
- Alcohol-free
- Suitable for all BioClean Clearview™ goggles
- Packing – one bottle per inner bag, 10 bags per outer bag, 10 bags (100 bottles) per carton

Re-order Code	Size
BAFS-601	60ml

BCAP
-SL

**BIOCLEAN
CLEARVIEW™
AUTOCLAVABLE
GOGGLES
LENS**



{ BCAP - SL }

**BIOCLEAN CLEARVIEW™ AUTOCLAVABLE
GOGGLES LENS**

Replacement lens for BCAP model

- Toughened polycarbonate lens
- Optically correct
- Autoclavable
- EN 166:2001 Optical Class 1
- Packing – one lens per bag, 10 bags per inner box, 10 boxes (100 pieces) per carton

Re-order Code

BCAP-SL

S-BVCT

**BIOCLEAN™
CLEANROOM
TAPE**



{ S - BVCT }

BIOCLEAN™ STERILE VINYL CLEANROOM TAPE

General purpose cleanroom use

- Zero residue
- Excellent durability
- Gamma sterilized
- ISO Class 4 compatible
- Colours: white, blue, green, red and yellow
- Length: 33m, Width: 12.5mm (0.5")
- White available in three widths: 12.5mm (0.5"), 25mm (1") and 50mm (2")
- Packing – one roll per sealed bag, 36 rolls per carton

Re-order Code

Re-order Code	Colour	Size
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

NH8BS

**BIOCLEAN
BEARD
SNOOD™**



{ NH8BS }

BIOCLEAN BEARD SNOOD™

Lightweight, comfortable protection

- Elasticated opening
- Comfortable head loop
- Soft non-woven polypropylene
- Compatible with a variety of environments
- White
- Packing – 100 pieces per bag, 10 bags (1000 pieces) per carton

Re-order Code

NH8BS

BSPB

**BIOCLEAN
STRETCHEE™
CLEANROOM
BANDS**



{ BSPB }

**BIOCLEAN STRETCHEE™ CLEANROOM
POLYISOPRENE BANDS**
A valuable cleanroom accessory

- Latex-free
- Polyisoprene polymer
- Smooth
- Washed in de-ionised water
- ISO Class 4 compatible
- White

Re-order Code	Size	Packing
BSPB-280	280mm x 5mm x 0.8mm	Double PE bags – 1 kilo (370 bands approx.)
BSPB-50	50mm x 2mm x 1.1mm	Double PE bags – 1 kilo (4760 bands approx.)

S-BBPN
-1

**BIOCLEAN™
STERILE
BAGS**



{ S-BBPN-1 }

BIOCLEAN™ STERILE BAGS
Cleanroom processed for cleanroom use

- Ultraclean low-density 75µm polythene
- 475mm x 610mm
- Additive-free material
- Gamma sterilized
- Double bagged
- Packing – 100 sterile bags per double bag, one inner bag per outer bag, five outer bags (500 sterile bags) per carton

Re-order Code
S-BBPN-1

**Minimum order quantity 2000 pieces
(four cartons)**

**BIOCLEAN™
CLEANROOM
LDPE
ANTISTATIC
BAGS**



{ CRASBAGS85X100 }

**BIOCLEAN™ CLEANROOM LDPE
ANTISTATIC BAGS**
Antistatic & heavy-duty

- Low-density 100µm polythene
- 850mm x 1000mm
- Heat sealable
- Packing – 50 antistatic bags per double polybag, two polybags (100 antistatic bags) per carton

Re-order Code
CRASBAGS85x100

OUR OFFICES

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