BIOCLEAN
CLEANROOM PRODUCTS
Edition 2 January 2015

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

www.BioClean.com
BIOCLEAN
CLEANROOM PRODUCTS
from Nitritex

Gloves
Goggles
Accessories
Facemasks & Veils
Reusable Garments
Chemo Safety Wear
Disposable Garments
# GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>About BioClean™</td>
<td>6</td>
</tr>
<tr>
<td>Company Timeline</td>
<td>8</td>
</tr>
<tr>
<td>Our Ranges</td>
<td>10</td>
</tr>
<tr>
<td>Cleanroom Consumable Selection Criteria, Quality Systems,</td>
<td>12</td>
</tr>
<tr>
<td>Cleanroom Classification</td>
<td></td>
</tr>
<tr>
<td>BioClean: The Brand</td>
<td>14</td>
</tr>
<tr>
<td>Factory Tour</td>
<td>16</td>
</tr>
</tbody>
</table>

# GLOVES

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>About BioClean™ Gloves</td>
<td>20</td>
</tr>
<tr>
<td>FAQs</td>
<td>21</td>
</tr>
<tr>
<td>About BioClean Chemotherapy Gloves</td>
<td>22</td>
</tr>
<tr>
<td>About BioClean BarrierPlus™ Gauntlets</td>
<td>22</td>
</tr>
</tbody>
</table>

**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™ BEKS 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-BGHS 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 S™ NANS 35

**NON-STERILE VINYL GLOVES**
- BioClean Vista™ BVA 36
- BioClean Vector™ BVA-E 36

**NON-STERILE POLYCHLOROPRENE GLOVES**
- BioClean Fusion™ BFAP 37

# DISPOSABLE GARMENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>About BioClean-D™ Disposable Garments</td>
<td>41</td>
</tr>
<tr>
<td>FAQs</td>
<td>42</td>
</tr>
<tr>
<td>STERILE DISPOSABLE GARMENTS</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td></td>
</tr>
<tr>
<td>BioClean-D™ Sterile Drop-down Garment with Hood</td>
<td>S-BDSH</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Coverall with Hood and Integrated Boots</td>
<td>S-BDFC</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Coverall with Hood</td>
<td>S-BDCHT</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Coverall with Collar</td>
<td>S-BDCCT</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Lab Coat</td>
<td>S-BDLC</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Hood</td>
<td>S-BDHD</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Sleeve Covers</td>
<td>S-BDSC-L</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Overboots</td>
<td>S-BDOB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NON-STERILE DISPOSABLE GARMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean-D™ Non-Sterile Coverall with Collar</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Coverall with Hood</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Lab Coat</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Visitor Coat</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Hood</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Sleeve Covers</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Overboots</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FACEMASKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>About BioClean™ Facemasks</td>
</tr>
<tr>
<td>FAQs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STERILE FACEMASKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean DB™ Sterile Pouch-Style Facemask</td>
</tr>
<tr>
<td>BioClean DB™ Sterile Pouch-Style Facemask with Neck Guard</td>
</tr>
<tr>
<td>BioClean Clearview™ Sterile Looped or Tie-On Visor Facemask</td>
</tr>
<tr>
<td>BioClean MEA™ Sterile Looped Facemask</td>
</tr>
<tr>
<td>BioClean MTA™ Sterile Tie-On Facemask</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NON-STERILE FACEMASKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean DB™ Non-Sterile Pouch Style Facemask</td>
</tr>
<tr>
<td>BioClean DB™ Non-Sterile Pouch Style Facemask with Neck Guard</td>
</tr>
<tr>
<td>BioClean MEA™ Non-Sterile Looped Facemask</td>
</tr>
<tr>
<td>BioClean MTA™ Non-Sterile Tie-On Facemask</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NON-STERILE FACE VEILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Microflow™ Non-Sterile Face Veil with Headloop</td>
</tr>
<tr>
<td>BioClean Microflow™ Non-Sterile Face Veil with Studs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GOGGLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>About BioClean Clearview™ Goggles</td>
</tr>
<tr>
<td>About BioClean Clearview™ Single Use Sterile Goggles</td>
</tr>
<tr>
<td>About BioClean Clearview™ Autoclavable Goggles</td>
</tr>
<tr>
<td>FAQs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STERILE GOGGLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Clearview™ Sterile Single Use Goggles (ETO)</td>
</tr>
<tr>
<td>BioClean Vijon™ Sterile Single Use Goggles (Gamma)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AUTOCLAVABLE GOGGLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Clearview™ Autoclavable Panoramic Goggles</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles</td>
</tr>
</tbody>
</table>
### REUSABLE GARMENTS

<table>
<thead>
<tr>
<th>Products</th>
<th>Model</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean-R™ Coverall</td>
<td>STC001</td>
<td>84</td>
</tr>
<tr>
<td>BioClean-R™ Coveral</td>
<td>STC002</td>
<td>85</td>
</tr>
<tr>
<td>BioClean-R™ Coveral</td>
<td>STC003</td>
<td>86</td>
</tr>
<tr>
<td>BioClean-R™ Hood</td>
<td>STH002</td>
<td>87</td>
</tr>
<tr>
<td>BioClean-R™ Hood</td>
<td>STH002-S</td>
<td>88</td>
</tr>
<tr>
<td>BioClean-R™ YASHMAK</td>
<td>YASH01</td>
<td>88</td>
</tr>
<tr>
<td>BioClean-R™ Hood</td>
<td>STH003</td>
<td>89</td>
</tr>
<tr>
<td>BioClean-R™ Hood</td>
<td>STH005</td>
<td>89</td>
</tr>
<tr>
<td>BioClean-R™ Tunic</td>
<td>NTU001</td>
<td>90</td>
</tr>
<tr>
<td>BioClean-R™ Tunic</td>
<td>NTU002</td>
<td>91</td>
</tr>
<tr>
<td>BioClean-R™ Trouser</td>
<td>NTR001</td>
<td>91</td>
</tr>
<tr>
<td>BioClean-R™ Trouser</td>
<td>NTR002</td>
<td>92</td>
</tr>
<tr>
<td>BioClean-R™ Classic Coat</td>
<td>CLC001</td>
<td>93</td>
</tr>
<tr>
<td>BioClean-R™ Albany Coat</td>
<td>ALB001</td>
<td>94</td>
</tr>
<tr>
<td>BioClean-R™ Moonshot Coat</td>
<td>MOC001</td>
<td>95</td>
</tr>
<tr>
<td>BioClean-R™ Overboots</td>
<td>STO001</td>
<td>96</td>
</tr>
<tr>
<td>BioClean-R™ Overboots</td>
<td>STO015</td>
<td>97</td>
</tr>
<tr>
<td>BioClean-R™ Overboots</td>
<td>STO022</td>
<td>97</td>
</tr>
<tr>
<td>BioClean-R™ Overboots</td>
<td>STO013</td>
<td>98</td>
</tr>
<tr>
<td>BioClean-R™ Overshoes</td>
<td>SKO001</td>
<td>99</td>
</tr>
<tr>
<td>BioClean-R™ Overshoes</td>
<td>SKO002</td>
<td>99</td>
</tr>
</tbody>
</table>

### CHEMOPROTECTION WEAR

<table>
<thead>
<tr>
<th>Products</th>
<th>Model</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Suprene™</td>
<td>BSNS</td>
<td>107</td>
</tr>
<tr>
<td>BioClean Emerald™</td>
<td>BENS</td>
<td>108</td>
</tr>
<tr>
<td>BioClean N-Plus™</td>
<td>BNPS</td>
<td>109</td>
</tr>
<tr>
<td>BioClean P-Zero™</td>
<td>BPZS</td>
<td>109</td>
</tr>
<tr>
<td>BioClean Ultimate™</td>
<td>BUPS</td>
<td>110</td>
</tr>
<tr>
<td>BioClean Fusion™</td>
<td>S-BFAP</td>
<td>110</td>
</tr>
<tr>
<td>BioClean DB™ Sterile Pouch-Style Facemask with Neck Guard</td>
<td>BDBS-G</td>
<td>111</td>
</tr>
<tr>
<td>BioClean DB™ Sterile Pouch-Style Facemask</td>
<td>BDBS</td>
<td>111</td>
</tr>
<tr>
<td>BioClean C™ Sterile Chemotherapy Protective Apron with Sleeves</td>
<td>S-BCAS</td>
<td>112</td>
</tr>
<tr>
<td>BioClean-C™ Sterile Chemotherapy Protective Apron - Sleeveless</td>
<td>S-BCDA</td>
<td>113</td>
</tr>
<tr>
<td>BioClean-C™ Sterile Chemotherapy Protective Sleeve Cover</td>
<td>S-BCSC</td>
<td>113</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Coverall with Collar</td>
<td>S-BDCC</td>
<td>114</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Hood</td>
<td>S-BDHD</td>
<td>115</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Overboots</td>
<td>S-BDOB</td>
<td>115</td>
</tr>
<tr>
<td>BioClean-D™ Sterile Coverall with Hood</td>
<td>S-BDCHT</td>
<td>116</td>
</tr>
<tr>
<td>BioClean Clearview™ Sterile Single Use Goggles</td>
<td>BCGS1</td>
<td>117</td>
</tr>
<tr>
<td>BioClean Chemprep™ Sterile Prep Mat</td>
<td>S-BCPM</td>
<td>117</td>
</tr>
</tbody>
</table>

### CHEMOPROTECTION WEAR

<table>
<thead>
<tr>
<th>Products</th>
<th>Model</th>
<th>Pg</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Fusion™</td>
<td>BFAP</td>
<td>119</td>
</tr>
<tr>
<td>BioClean Synergy™</td>
<td>BSAN</td>
<td>119</td>
</tr>
<tr>
<td>BioClean-C™ Non-Sterile Chemotherapy Protective Apron with Sleeves</td>
<td>BCAS</td>
<td>120</td>
</tr>
<tr>
<td>BioClean-C™ Non-Sterile Chemotherapy Protective Apron - Sleeveless</td>
<td>BCDA</td>
<td>121</td>
</tr>
<tr>
<td>BioClean-C™ Non-Sterile Chemotherapy Protective Sleeve Cover</td>
<td>BCSC</td>
<td>121</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Coverall with Collar</td>
<td>BDCCT</td>
<td>122</td>
</tr>
<tr>
<td>Product Description</td>
<td>Code</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Hood</td>
<td>BDHD</td>
<td>123</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Overboots</td>
<td>BDOB</td>
<td>123</td>
</tr>
<tr>
<td>BioClean-D™ Non-Sterile Coverall with Hood</td>
<td>BDCHT</td>
<td>124</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles</td>
<td>BCAG</td>
<td>125</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Panoramic Goggles</td>
<td>BCAP</td>
<td>125</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles</td>
<td>BCAG</td>
<td>125</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles Lens</td>
<td>BCAG-SL &amp; BCAH-SL</td>
<td>133</td>
</tr>
<tr>
<td>BioClean™ Sterile Anti-Fog Spray</td>
<td>BAFS</td>
<td>133</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles Lens</td>
<td>BCAP-SL</td>
<td>134</td>
</tr>
<tr>
<td>BioClean™ Sterile Vinyl Cleanroom Tape</td>
<td>S-BVCT</td>
<td>134</td>
</tr>
<tr>
<td>BioClean Beard Snood™</td>
<td>NH8BS</td>
<td>134</td>
</tr>
<tr>
<td>BioClean Supatac™ Tacky Mats</td>
<td>STB/STW</td>
<td>133</td>
</tr>
<tr>
<td>BioClean Permaflow™ Sterile Cleanroom Pen</td>
<td>S-BPFP</td>
<td>133</td>
</tr>
<tr>
<td>BioClean Clearview™ Autoclavable Goggles Lens</td>
<td>BCAG-SL &amp; BCAH-SL</td>
<td>133</td>
</tr>
<tr>
<td>BioClean™ Sterile Bags</td>
<td>S-BBPN-1</td>
<td>135</td>
</tr>
<tr>
<td>BioClean™ Cleanroom LDPE Antistatic Bags</td>
<td>CRASBAG85x100</td>
<td>135</td>
</tr>
</tbody>
</table>

**CONTACT US**

<table>
<thead>
<tr>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Our Offices</td>
<td>136</td>
</tr>
</tbody>
</table>
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.
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

- **1996**
  - DEREK WATTS incorporates Nitritex Ltd
  - BioClean products selling into 11 countries
  - Nitritex expands and moves to dedicated offices and warehouse in Newmarket, UK
  - Introduction of 600mm (24”) BioClean Maxima™ sterile latex cleanroom gloves

- **2000**
  - Nitritex sales office and warehouse open in Toronto, Canada

- **2001**
  - 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

- **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

- **2003**
  - 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

- **2004**
  - 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**
  - 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
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

2007

Introduction of BioClean BarrierPlus™ range of sterile gauntlets and sleeves
Our first 100% Neoprene glove, the BioClean Suprene™ is launched for the pharmaceutical and chemotherapy markets
BioClean products selling into 63 countries

2008

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

2009

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

2010

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

2011

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

2013

A complete rebranding of BioClean commences, creating Billy BioClean™ and the Magnificent 7™ characters
Six animated educational BioClean product videos launched

2014

BioClean products selling into 73 countries
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.

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.

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.
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.

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.

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.

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.
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 chem 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.

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.

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 3520 particles of size 0.5 µm per cubic metre. To put this into perspective the average human hair is 150 times thicker than the particles we are measuring, and the average cubic metre of air outside your office has over 10 million particles of this size!

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

<table>
<thead>
<tr>
<th>ISO classification number (N)</th>
<th>Maximum allowable concentrations (particles/m³) for particles equal to and greater than the considered sizes shown below</th>
<th>FED-STD-209E</th>
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<tbody>
<tr>
<td></td>
<td>0.1 µm</td>
<td>0.2 µm</td>
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<td></td>
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<td>100</td>
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<td>1,000</td>
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<td>ISO Class 8</td>
<td>3,520,000</td>
<td>832,000</td>
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</table>

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
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™
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.

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.

One of our supervisors monitoring the ISO Class 4 (Class10) 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.
Inside our state-of-the-art ISO Class 4 (Class 10) 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 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.

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 on time delivery.

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.

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

Inside our state-of-the-art ISO Class 4 (Class 10) 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.

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A BioClean shipment leaving the factory for on time delivery.

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.
BIOCLEAN
GLOVES
sterile & non-sterile
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.

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
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
sterile GLOVES
{ 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

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</table>

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

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{ 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

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{ 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

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

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

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Standards

EN 374

LEVEL 2

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
### 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 | EN 374
BNMS-70 | 7.0 | EN 374
BNMS-75 | 7.5 | EN 374
BNMS-80 | 8.0 | EN 374
BNMS-85 | 8.5 | EN 374
BNMS-90 | 9.0 | EN 374

### 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 | EN 374
BENS6.5 | 6.5 | EN 374
BENS7.0 | 7.0 | EN 374
BENS7.5 | 7.5 | EN 374
BENS8.0 | 8.0 | EN 374
BENS8.5 | 8.5 | EN 374
BENS9.0 | 9.0 | EN 374
BENS10.0 | 10.0 | EN 374

### 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 | EN 374
BNPS65 | 6.5 | EN 374
BNPS70 | 7.0 | EN 374
BNPS75 | 7.5 | EN 374
BNPS80 | 8.0 | EN 374
BNPS85 | 8.5 | EN 374
BNPS90 | 9.0 | EN 374
BNPS100 | 10.0 | EN 374
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  Size
BEXS-60     6.0
BEXS-65     6.5
BEXS-70     7.0
BEXS-75     7.5
BEXS-80     8.0
BEXS-85     8.5
BEXS-90     9.0
BEXS-100    10.0

Standards
EN 374
LEVEL 2
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 | Size
--- | ---
BSNS-60 | 6.0
BSNS-65 | 6.5
BSNS-70 | 7.0
BSNS-75 | 7.5
BSNS-80 | 8.0
BSNS-85 | 8.5
BSNS-90 | 9.0

Standards
- EN 421 LEVEL 2
- EN 374 A K L
- EN 374 LEVEL 2
Fusion Gloves Video

{ 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 | EN 374 LEVEL 2
S-BFAP-6065   | 6.0 - 6.5 | EN 374 LEVEL 2
S-BFAP-7075   | 7.0 - 7.3 | EN 374 LEVEL 2
S-BFAP-8085   | 8.0 - 8.5 | EN 374 LEVEL 2
S-BFAP-9090   | 9.0       | EN 374 LEVEL 2
S-BFAP-1010   | 10.0      | EN 374 LEVEL 2

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  | EN 374 LEVEL 2
BPZS65       | 6.5  | EN 374 LEVEL 2
BPZS70       | 7.0  | EN 374 LEVEL 2
BPZS75       | 7.5  | EN 374 LEVEL 2
BPZS80       | 8.0  | EN 374 LEVEL 2
BPZS85       | 8.5  | EN 374 LEVEL 2
BPZS90       | 9.0  | EN 374 LEVEL 2

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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

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

BUPS
BIOCLEAN ULTIMATE™

S-BGHF
BIOCLEAN HALFINGERS™
non-sterile

GLOVES

sterile
**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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
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<tbody>
<tr>
<td>BLA300-XS</td>
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<tr>
<td>BLA302-M</td>
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<tr>
<td>BLA304-XL</td>
<td>X-Large</td>
</tr>
</tbody>
</table>

**Standards**

- EN 374
- Level 2
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 | Size
---|---
BLA200-XS | X-Small
BLA201-S | Small
BLA202-M | Medium
BLA203-L | Large
BLA204-XL | X-Large
BLA205-XXL | XX-Large

Standards

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
**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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>*BIOTAC-XXXL</td>
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</tbody>
</table>

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

**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

<table>
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<tr>
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<th>Standards</th>
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</table>

**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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
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<tbody>
<tr>
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<td>BTAN-XL</td>
<td>X-Large</td>
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</table>
NAN5

NEW

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 | Size
--- | ---
NAN5-XS | X-Small
NAN5-S | Small
NAN5-M | Medium
NAN5-L | Large
NAN5-XL | X-Large
NAN5-XXL | XX-Large

Standards
EN 374
LEVEL 2
### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
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</table>

### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
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<tbody>
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</tr>
<tr>
<td>BVA-E-XL</td>
<td>X-Large</td>
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</tbody>
</table>
{ 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
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<td>EN 374</td>
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<td>BFAP-S</td>
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</tr>
<tr>
<td>BFAP-XXL</td>
<td>XX-Large</td>
<td></td>
</tr>
</tbody>
</table>

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
BIODISPOSABLE CLEAN-D
STERILE & NON-STERILE GARMNENTS
Billy BioClean™

Purger of Particles,
Saviour of Sterility,
Quasher of Contamination,
the King of Cleanroom
Contamination Control
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.
Bioclean-D

Sterile

disposable garments
**Product Details**

**Aseptic donning**

**Step 1**

**Step 2**

**Step 3**

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest</th>
<th>Height</th>
<th>Re-order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSmall</td>
<td>76-84cm (30” – 33&quot;)</td>
<td>158-164cm (5’2” - 5’4”)</td>
<td>S-BDSH-XS</td>
</tr>
<tr>
<td>Small</td>
<td>84-92cm (33”-36”)</td>
<td>164-170cm (5’4” - 5’6”)</td>
<td>S-BDSH-S</td>
</tr>
<tr>
<td>Medium</td>
<td>92-100cm (36”-39”)</td>
<td>170-176cm (5’6” - 5’9”)</td>
<td>S-BDSH-M</td>
</tr>
<tr>
<td>Large</td>
<td>100-108cm (39”-42”)</td>
<td>176-182cm (5’9” - 6’0”)</td>
<td>S-BDSH-L</td>
</tr>
<tr>
<td>XLarge</td>
<td>108-116cm (42”-45”)</td>
<td>182-188cm (6’0” - 6’2”)</td>
<td>S-BDSH-XL</td>
</tr>
<tr>
<td>XXLarge</td>
<td>116-124cm (45”-48”)</td>
<td>188-194cm (6’2” - 6’4”)</td>
<td>S-BDSH-XXL</td>
</tr>
<tr>
<td>XXXLarge</td>
<td>124-132cm (48”-51”)</td>
<td>194-200cm (6’4” - 6’6”)</td>
<td>S-BDSH-XXXL</td>
</tr>
<tr>
<td>*XXXXLarge</td>
<td>132-140cm (51”-54”)</td>
<td>200-206cm (6’6” - 6’8”)</td>
<td>S-BDSH-XXXXL</td>
</tr>
</tbody>
</table>

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

- 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)
NEW

- 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)

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

Head-to-toe coverage

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest</th>
<th>Height</th>
<th>Re-order Code</th>
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<tr>
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<td>158-164cm (5’2” - 5’4”)</td>
<td>S-BDFC-XS</td>
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<tr>
<td>Small</td>
<td>84-92cm (33” – 36”)</td>
<td>164-170cm (5’4” - 5’6”)</td>
<td>S-BDFC-S</td>
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<tr>
<td>Medium</td>
<td>92-100cm (36” – 39”)</td>
<td>170-176cm (5’6” - 5’9”)</td>
<td>S-BDFC-M</td>
</tr>
<tr>
<td>Large</td>
<td>100-108cm (39” – 42”)</td>
<td>176-182cm (5’9” - 6’0”)</td>
<td>S-BDFC-L</td>
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<tr>
<td>XLarge</td>
<td>108-116cm (42” – 45”)</td>
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<tr>
<td>XXLarge</td>
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<td>188-194cm (6’2” - 6’4”)</td>
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<tr>
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<tr>
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<td>132-140cm (51” – 54”)</td>
<td>200-206cm (6’6” - 6’8”)</td>
<td>S-BDFC-XXXXL</td>
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</tbody>
</table>

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

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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 (XXL & XXXXL - 15 pieces per carton)

<table>
<thead>
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<th>Height</th>
<th>Re-order Code</th>
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<tr>
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<td>S-BDCHT-S</td>
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<tr>
<td>Medium</td>
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<td>S-BDCHT-M</td>
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<tr>
<td>Large</td>
<td>100-108cm (39&quot;-42&quot;)</td>
<td>176-182cm (5’9&quot; – 6’0&quot;)</td>
<td>S-BDCHT-L</td>
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<tr>
<td>XLarge</td>
<td>108-116cm (42&quot;-45&quot;)</td>
<td>182-188cm (6’0&quot; – 6’2&quot;)</td>
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<tr>
<td>XXLarge</td>
<td>116-124cm (45&quot;-48&quot;)</td>
<td>188-194cm (6’2&quot; – 6’4&quot;)</td>
<td>S-BDCHT-XXL</td>
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<tr>
<td>XXXLarge</td>
<td>124-132cm (48&quot;-51&quot;)</td>
<td>194-200cm (6’4&quot; – 6’6&quot;)</td>
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<td>200-206cm (6’6&quot; – 6’8&quot;)</td>
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</table>

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

<table>
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<th>Size</th>
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</tbody>
</table>

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

### 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

<table>
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<th>Chest Height</th>
<th>Re-order Code</th>
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<td>100-108cm (39&quot;-42&quot;)</td>
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<tr>
<td>XXLarge</td>
<td>116-124cm (45&quot;-48&quot;)</td>
<td>S-BDLC-XXL</td>
</tr>
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</table>

*Low stock item. Please contact for lead time.
### BIOCLEAN-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

<table>
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<tbody>
<tr>
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</table>

### BIOCLEAN-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

<table>
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</thead>
<tbody>
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</tbody>
</table>

### 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 Clean-Tough™ fabric
- Elasticated top with secure ties and slip-resistant soles
- Packing - 5 bags of 15 pairs (75 individually packed pairs) per carton

<table>
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<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-BDOB</td>
<td>Universal</td>
<td></td>
</tr>
</tbody>
</table>
BioCLEAN disposable garments

non-sterile

sterile

disposable
exceptional comfort AND protection

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)

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest (inch)</th>
<th>Height (inch)</th>
<th>Re-order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>33&quot;-36&quot;</td>
<td>5'-6&quot;</td>
<td>S-BDCCT-S</td>
</tr>
<tr>
<td>Medium</td>
<td>36&quot;-39&quot;</td>
<td>5'-6&quot;</td>
<td>S-BDCCT-M</td>
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<tr>
<td>Large</td>
<td>39&quot;-42&quot;</td>
<td>5'-6'</td>
<td>S-BDCCT-L</td>
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<tr>
<td>XLarge</td>
<td>42&quot;-45&quot;</td>
<td>6'0&quot;-6'2&quot;</td>
<td>S-BDCCT-XL</td>
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<tr>
<td>XXLarge</td>
<td>45&quot;-48&quot;</td>
<td>6'2&quot;-6'4&quot;</td>
<td>S-BDCCT-XXL</td>
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<tr>
<td>XXXLarge</td>
<td>48&quot;-51&quot;</td>
<td>6'4&quot;-6'6&quot;</td>
<td>S-BDCCT-XXXL</td>
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<tr>
<td>XXXXLarge</td>
<td>51&quot;-54&quot;</td>
<td>6'6&quot;-6'8&quot;</td>
<td>S-BDCCT-XXXXL</td>
</tr>
</tbody>
</table>

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

Exceptional comfort & protection

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
*XXXXLarge | 124-132cm (48"-51") | 194-200cm (6'4"- 6'6") | BDCHT-XXXXL
**XXXXLarge | 132-140cm (51"-54") | 200-206cm (6'6"- 6'8") | BDCHT-XXXXXL

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

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
{ **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

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest (cm)</th>
<th>Height (cm)</th>
<th>Re-order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>84-92</td>
<td>164-170</td>
<td>BDLC-S</td>
</tr>
<tr>
<td>Medium</td>
<td>92-100</td>
<td>170-176</td>
<td>BDLC-M</td>
</tr>
<tr>
<td>Large</td>
<td>100-108</td>
<td>176-182</td>
<td>BDLC-L</td>
</tr>
<tr>
<td>Xlarge</td>
<td>108-116</td>
<td>182-188</td>
<td>BDLC-XL</td>
</tr>
<tr>
<td>XXlarge</td>
<td>116-124</td>
<td>188-194</td>
<td>BDLC-XXL</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest (cm)</th>
<th>Height (cm)</th>
<th>Re-order Code</th>
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<tr>
<td>Small</td>
<td>84-92</td>
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<tr>
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<tr>
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<td>100-108</td>
<td>176-182</td>
<td>BHVC-L</td>
</tr>
<tr>
<td>Xlarge</td>
<td>108-116</td>
<td>182-188</td>
<td>BHVC-XL</td>
</tr>
</tbody>
</table>

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

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

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
BIO-CLEAN face masks sterile & non-sterile
Mr. & Mrs. Phil Trayshon™
Defenders of the Face,
Protectors from Particles,
Bringers of Breathability,
the Ultra-Clean Face
Coverage Team
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, thermobond, 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 Softflow™ 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 mmH₂O/cm². 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.
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

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
facemask with anti-fog visor providing splash protection

\{ V F M \}

BIOCLEAN CLEARVIEW™ 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
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

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™ 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™ 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
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’
• Polyurethane loops
• Fully enclosed, malleable nose-band
• Blue clip allows fastening at back of head
• Packing:

MTA 210-0 (bulk)
100 masks per inner bag, one inner bag per sealed outer bag, 20 outer bags (2000 pieces) per carton

MTA 210-2 (single)
One mask per sealed bag, 50 bags per sealed outer bag, 12 outer bags (600 pieces) per carton

Re-order Code Pack
MTA210-0 Bulk
MTA210-2 Single

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 bags (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 Pack
MEA210-0 Bulk
MEA210-2* Single
*Non-stock item. Please contact for MOQ and lead time

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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
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
LEAN GLES
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.
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.

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.

Customer Info Aid to help resolve issues with goggles fogging

BioClean Clearview Autoclavable Goggles Video
{**BCGS1**}

**BIOCLEAN CLEARVIEW™ 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
- EO 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: CE

---

{**BVGS**}

**BIOCLEAN VIJON™ STERILE SINGLE USE GOGGLES**

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: CE

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

**BIOCLEAN CLEARVIEW™ 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
- Packing – one box of 12 goggles, five boxes (60 goggles) per carton

**Re-order Code**

- **BCAH**
  - Goggles
- **BCAH-SL**
  - Spare lens
- **BCAH-SS**
  - Spare strap

**BCAP**

**BIOCLEAN CLEARVIEW™ 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**
  - Goggles
- **BCAP-SL**
  - Spare lens
- **BCAP-SS**
  - Spare strap

**BCAG**

**BIOCLEAN CLEARVIEW™ 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**
  - Goggles
- **BCAG-SL**
  - Spare Lens
- **BCAG-SS**
  - Spare Strap

Also available with blocked upper and/or lower vents.
René Reusable™
Siren of Strength,
Diva of Durability,
the Antistatic Controller of
Cleanroom Contamination
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

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<td>83</td>
<td>63.1</td>
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<td>Tearing Strength</td>
<td>ibf</td>
<td>ASTM D2261-1996 C.R.E. single tongue</td>
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<td>1.3</td>
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<tr>
<td>Density</td>
<td>Threads/Inch</td>
<td></td>
<td>168 x 94</td>
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<tr>
<td>ECF</td>
<td></td>
<td>Kanebo Beltron</td>
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<td></td>
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<tr>
<td>Composition</td>
<td></td>
<td>99% Polyester / 1% Carbon</td>
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<tr>
<td>Weave</td>
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<td>Taffeta (5mm grid)</td>
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<td>Dimension</td>
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<td>cm³/cm²/sec</td>
<td>ASTM D 737 Fraxier Method</td>
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<td>gr/m²/24h</td>
<td>ASTM E 96-2000</td>
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<td>Volts</td>
<td>JIS-L1094-1997</td>
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<td>Surface Resistivity</td>
<td>Ω/SQ</td>
<td>ASTM D 257</td>
<td>7.5 x 10⁷</td>
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<td>Static Decay</td>
<td>SEC</td>
<td>FTS M4046 S101C</td>
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<td>Filtration Efficiency</td>
<td>%</td>
<td>IES RP-CC-C03-87-T Modified</td>
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<td>Abrasion Resistant Cycles</td>
<td>Cycle</td>
<td>ASTM D 3886-99 UNIV. Diaphragm</td>
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## MT811

**Typical Application:**
- ISO 4
- ISO 5
- ISO 6
- ISO 7

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<td>ECF</td>
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<td>Composition</td>
<td>99% Polyester / 1% Carbon</td>
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<td>½ Twill (5mm Grid)</td>
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<td>Ohms/Sq</td>
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<td>Sec</td>
<td>FTS M4046 S101C</td>
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<td>Filtration Efficiency</td>
<td>%</td>
<td>IES RP-CC-003-87-T MODIFIED</td>
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## Fabric Specification (cont.)

### MT031

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<td>ECF K B Seiren</td>
<td>B-31 5mm</td>
<td>B-31 5mm</td>
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<tr>
<td>Composition</td>
<td>99% Polyester / 1% Carbon</td>
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<td>Weave</td>
<td>2/3 Twill (5mm Grid)</td>
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<tr>
<td>Dimension Inch x Yd</td>
<td>58&quot; / 60&quot;</td>
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<td>Weight gr/m²</td>
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<td>JIS – L 1096</td>
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<td>Friction Static Voltage</td>
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<td>Surface Resistivity</td>
<td>ASTM D257</td>
<td>10¹ - 10⁹</td>
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<td>Filtration Efficiency 0.3-0.5µm</td>
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### Undergarment Fabric Specification

### WF-FQ181

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<td>Density Threads/Inch</td>
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<td>Width</td>
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<tr>
<td>Weight gr/m² / gr/yd</td>
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<tr>
<td>Application</td>
<td>Undergarments</td>
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## Cleanroom Classification Standards

### CLEANROOM CLASSIFICATION STANDARDS

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<td>A/B</td>
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<td>C</td>
<td>D</td>
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### GARMENT TYPE

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<td>AS</td>
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<td>R</td>
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<td>Overboots</td>
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**Suggested Frequency Change**

- Per Entry
- Per Entry
- Daily
- 3 per week
- 2 per week
- 2 per week

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

**Legend:**
- R - Recommended
- NR - Not Recommended
- AS - Application Specific
STC 001

BIOCLEAN-R™ COVERALL

Product Details

Material Colours

Product Drawing

STC 001

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
STC002

BIOCLEAN-R™ COVERALL

Key Features
- Raglan sleeves
- Centre fastening zip with YKK slider
- No elastic in back

- Stud neck
- Stud wrists
- Stud ankles

Fabric
MT811, MT031, MT12

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

Suitable for gamma irradiation

Typical Applications
- ISO 4
- ISO 5
- ISO 6
- ISO 7

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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
STH002 BIOCLEAN-R™ HOOD

Key Features
- Stud fastening front
- Vertical and horizontal rear stud fastening

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

Fabric
- MT811
- MT031
- MT12

Typical Applications
- ISO 4
- ISO 5
- ISO 6
- ISO 7

Suitable for gamma irradiation

Material Colours

Product Details

Product Drawing
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
- ISO 4
- ISO 5
- ISO 6
- ISO 7

Suitable for gamma irradiation

BIOCLEAN-R™ YASHMAK

Key Features
- Three male studs each side to attach hood

Fabric
Voile

Size
One size

Typical Applications
- ISO 4
- ISO 5
- ISO 6
- ISO 7
**STH003**

**BIOCLEAN-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**
- ISO 4
- ISO 5
- ISO 6
- ISO 7

---

**STH005**

**BIOCLEAN-R™ HOOD**

**Key Features**
- Eyes only
- Tie-tape fastenings

**Fabric**
- MT811, MT031, MT12

**Size**
- One size

**Typical Applications**
- ISO 4
- ISO 5
- ISO 6
- ISO 7

- Suitable for gamma irradiation

---

*NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY*
NTU001

BIOCLEAN-R™ TUNIC

Key Features
- Round neck
- Stud fastening shoulder
- Short sleeve

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

Fabric
WF-FQ181

Material Colours

Product Drawing

Typical Applications
- ISO 4 as undergarments
- ISO 5 as undergarments
- ISO 8 as garment
{ NTU002 }
BIOCLEAN-R™ TUNIC

Key Features
• Round neck
• Stud fastening shoulder
• Long sleeve
• Stud wrists

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

{ NTU003 }
BIOCLEAN-R™ TUNIC

Key Features
• Round neck
• Stud fastening front
• Long sleeve
• Lycra wrists

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
{ N T R 0 0 1 } 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

{ N T R 0 0 2 } 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

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
BIOCLEAN-R™
CLASSIC COAT

CLC001

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
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
STO001

BIOCLEAN-R™ OVERBOOTS

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

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

Fabric
MT811
MT031
MT12

Typical Applications
- ISO 4
- ISO 5
- ISO 6
- ISO 7

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
**STO 015**

**BIOCLEAN-R™ OVERBOOTS**

Key Features
- Toggle top fastening
- Toggle ankle fastening
- Toggle bridge fastening
- 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

Material Colours

Product Drawing

- Suitable for gamma irradiation

**STO 022**

**BIOCLEAN-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

Fabric
MT811, MT031, MT12

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

Typical Applications
- ISO 4
- ISO 5
- ISO 6
- ISO 7

Material Colours

Product Drawing

- Suitable for gamma irradiation
STO 013

BIOCLEAN-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

Material Colours

Product Drawing

Suitable for gamma irradiation
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

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
Dr. IsoLator™
Doctor of Defence,
Professor of Protection,
the Guardian of Cleanroom
Chemo Safety Wear
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.
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

<table>
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<tr>
<th>DIFFERENCE</th>
<th>EN 374-3:2003*</th>
<th>ASTM D6978-05 **</th>
<th>CONSEQUENCE</th>
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<tr>
<td>Thickness of the Test Specimens</td>
<td>Sample has to be taken from the palm of the glove.</td>
<td>Sample has to be taken from either the palm or the cuff of the glove, whichever is the thinner.</td>
<td>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.</td>
</tr>
<tr>
<td>Test Temperature</td>
<td>Testing to be conducted at a temperature of 23° ±1°C.</td>
<td>Testing to be conducted at a temperature of 35° ±2°C.</td>
<td>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.</td>
</tr>
<tr>
<td>Test Chemicals</td>
<td>A minimum of three chemicals must be used for the test. None of the chemicals needs to be a chemotherapy drug.</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Permeation Limit</td>
<td>Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 1.00 µg/cm²/min.</td>
<td>Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01µg/cm²/min.</td>
<td>The ASTM D6978-05 test limit is set at 100th of the EN 374-3:2003 limit. This requirement is far more stringent and reflects the potential hazards presented by chemotherapy drugs.</td>
</tr>
</tbody>
</table>

* 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 D6978-05
Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01 µg/cm²/min

<table>
<thead>
<tr>
<th>CHEMO DRUG</th>
<th>BSNS &amp; B-FAP*</th>
<th>BSNS &amp; BENS**</th>
<th>BUPS &amp; BENS***</th>
<th>BSNS****</th>
<th>BUPS</th>
<th>BPZS</th>
<th>BENS</th>
<th>BNPS</th>
<th>BNPLS</th>
<th>CLEAN TOUGH™ FABRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Double-Gloving Results</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisplatin</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>Carmustine</td>
<td>16.4</td>
<td>15.6</td>
<td>&gt;240</td>
<td>0.2</td>
<td>50.3</td>
<td>12.4</td>
<td>2.5</td>
<td>1.70</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>Cyclophosphamide</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>Doxorubicin Hydrochloride</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>5-Fluorouracil</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>Methotrexate</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
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<tr>
<td>Etoposide</td>
<td>NT</td>
<td>NT</td>
<td>&gt;480</td>
<td>&gt;240</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
<td>&gt;480</td>
</tr>
<tr>
<td>Paclitaxel</td>
<td>166.1</td>
<td>195.5</td>
<td>377</td>
<td>15.4</td>
<td>47.7</td>
<td>107.7</td>
<td>30.5</td>
<td>111</td>
<td>0.52</td>
<td>&gt;480</td>
</tr>
</tbody>
</table>

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.

* 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 S-BFAP as the inner glove and BSNS as the outer glove
*** Test was carried out using a combination of S-BFAP 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 374-3:2003
Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 1.00 µg/cm²/min

<table>
<thead>
<tr>
<th>CHEMO DRUG</th>
<th>BUPS</th>
<th>BENS</th>
<th>BPZS</th>
<th>BNPS</th>
<th>BNPLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisplatin</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Carmustine</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Cyclophosphamide</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Doxorubicin Hydrochloride</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>5-Fluorouracil</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Methotrexate</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Etoposide</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Paclitaxel</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
<tr>
<td>Thiotepa</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
<td>&gt;480 (CLASS 6)</td>
</tr>
</tbody>
</table>
**BSNS**

**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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSNS-60</td>
<td>6.0</td>
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<tr>
<td>BSNS-65</td>
<td>6.5</td>
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<tr>
<td>BSNS-70</td>
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<td>BSNS-85</td>
<td>8.5</td>
</tr>
<tr>
<td>BSNS-90</td>
<td>9.0</td>
</tr>
</tbody>
</table>

BSNS

**non-latex double-gloving**
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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
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</thead>
<tbody>
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<td>BENS6.0</td>
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<td>BENS9.0</td>
<td>9.0</td>
</tr>
<tr>
<td>BENS10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPZS60</td>
<td>6.0</td>
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</tr>
<tr>
<td>BPZS65</td>
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</tr>
<tr>
<td>BPZS70</td>
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<td></td>
</tr>
<tr>
<td>BPZS75</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>BPZS80</td>
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<td></td>
</tr>
<tr>
<td>BPZS85</td>
<td>8.5</td>
<td></td>
</tr>
<tr>
<td>BPZS90</td>
<td>9.0</td>
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<tr>
<td>BPZS100</td>
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</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNPS60</td>
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<td>BNPS70</td>
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<tr>
<td>BNPS75</td>
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<td>8.5</td>
<td></td>
</tr>
<tr>
<td>BNPS90</td>
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<td></td>
</tr>
<tr>
<td>BNPS100</td>
<td>10.0</td>
<td></td>
</tr>
</tbody>
</table>

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUPS-60</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>BUPS-65</td>
<td>6.5</td>
<td></td>
</tr>
<tr>
<td>BUPS-70</td>
<td>7.0</td>
<td></td>
</tr>
<tr>
<td>BUPS-75</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>BUPS-80</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td>BUPS-85</td>
<td>8.5</td>
<td></td>
</tr>
<tr>
<td>BUPS-90</td>
<td>9.0</td>
<td>ASTM D6978-05</td>
</tr>
</tbody>
</table>

S-BFAP 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-BFAP-5055</td>
<td>5.0 - 5.5</td>
<td></td>
</tr>
<tr>
<td>S-BFAP-6065</td>
<td>6.0 - 6.5</td>
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</tr>
<tr>
<td>S-BFAP-7075</td>
<td>7.0 - 7.5</td>
<td></td>
</tr>
<tr>
<td>S-BFAP-8085</td>
<td>8.0 - 8.5</td>
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</tr>
<tr>
<td>S-BFAP-9090</td>
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</tr>
<tr>
<td>S-BFAP-1010</td>
<td>10.0</td>
<td></td>
</tr>
</tbody>
</table>

EN 374 LEVEL 2
BDBS-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

BDBS

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™ STERILE CHEMOTHERAPY PROTECTIVE APRON WITH SLEEVES

Comfort & protection

Re-order Code  |  Size  |  Standard
---|---|---
S-BCAS-M  |  Medium  |  TYPE PB
S-BCAS-L  |  Large  |  TYPE PB
*S-BCAS-XL  |  XLarge  |  TYPE PB

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

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)
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 | Size | Standards
--- | --- | ---
S-BCDA-S | Small | ISO 13485:2003
S-BCDA-M | Medium | ISO 13485:2003
S-BCDA-L | Large | ISO 13485:2003

{ 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 elastics
• Ultrasonically bonded seams with protective tape
• CleanTough™ fabric
• Packing - six bags of 15 pairs (90 individually packed pairs) per carton

Re-order Code | Size | Standards
--- | --- | ---
S-BCSC | Universal | ISO 13485:2003

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
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)

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

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

*Non-stock size. Please contact for MOQ and lead time.
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 | Size | Standards
--- | --- | ---
S-BDOB | Universal | 

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 | Size | Standards
--- | --- | ---
S-BDHD | Universal | 

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 | Size | Standards
--- | --- | ---
S-BDOB | Universal | 

Re-order Code | Size | Standards
--- | --- | ---
S-BDHD | Universal | 

Re-order Code | Size | Standards
--- | --- | ---
S-BDOB | Universal | 

Re-order Code | Size | Standards
--- | --- | ---
S-BDOB | Universal | 

S-BDOB

S-BDHD

S-BDOB

115
**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)**

---

**BIOCLEAN-D™ STERILE COVERALL WITH HOOD**

**Exceptional comfort & protection**

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

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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-BCPM-4025B</td>
<td>40cm x 25cm – four bags of 50 double bagged mats (200 mats) per carton</td>
<td></td>
</tr>
<tr>
<td>S-BCPM-5640B</td>
<td>56cm x 40cm - four bags of 25 double bagged mats (100 mats) per carton</td>
<td></td>
</tr>
</tbody>
</table>

### BIOCLEAN CLEARVIEW™ 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCGS1</td>
<td>2</td>
</tr>
</tbody>
</table>

Autoclavable goggles available - see page 139
CHEMORAPID non-sterile SAFETY WEAR
{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
EN 374
LEVEL 2

{BSAN}

BIOCLEAN 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
EN 374
LEVEL 2
BCAS

BIOCLEAN-C™ NON-STERILE CHEMOTHERAPY PROTECTIVE APRON WITH SLEEVES

Comfort & protection

Re-order Code | Size | Standard
--- | --- | ---
BCAS-S | Small | Standard
BCAS-M | Medium | Standard
BCAS-L | Large | Standard
*BCAS-XL | XLarge | Non-stock size. Please contact for MOQ and lead time.

• 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)

{ BC A S }

BIODST-102 CHEMOTHERAPY PROTECTIVE APRON WITH SLEEVES

Comfort & protection

Re-order Code | Size | Standard
--- | --- | ---
BCAS-S | Small | Standard
BCAS-M | Medium | Standard
BCAS-L | Large | Standard
*BCAS-XL | XLarge | Non-stock size. Please contact for MOQ and lead time.

• 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)
{ 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCDA-S</td>
<td>Small</td>
<td></td>
</tr>
<tr>
<td>BCDA-M</td>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>BCDA-L</td>
<td>Large</td>
<td></td>
</tr>
</tbody>
</table>

{ 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCSC</td>
<td>Universal</td>
<td></td>
</tr>
</tbody>
</table>
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)

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

*Non-stock size. Please contact for MOQ and lead time.
BIOCLEAN-D™ NON-STEROILE 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  Size  Standards
BDHD  Universal  

BIOCLEAN-D™ NON-STEROILE 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  Size  Standards
BDOB  Universal  

BIOCLEAN-D™ OVERBOOTS

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)

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Chest</th>
<th>Height</th>
<th>Re-order Code</th>
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</thead>
<tbody>
<tr>
<td>XSmall</td>
<td>76-84cm (30&quot;-33&quot;)</td>
<td>158-164cm (5'2&quot;-5'4&quot;)</td>
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<tr>
<td>Small</td>
<td>84-92cm (33&quot;-36&quot;)</td>
<td>164-170cm (5'4&quot;-5'6&quot;)</td>
<td>BDCHT-S</td>
</tr>
<tr>
<td>Medium</td>
<td>92-100cm (36&quot;-39&quot;)</td>
<td>170-176cm (5'6&quot;-5'9&quot;)</td>
<td>BDCHT-M</td>
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<tr>
<td>Large</td>
<td>100-108cm (39&quot;-42&quot;)</td>
<td>176-182cm (5'9&quot;-6'0&quot;)</td>
<td>BDCHT-L</td>
</tr>
<tr>
<td>XLarge</td>
<td>108-116cm (42&quot;-45&quot;)</td>
<td>182-188cm (6'0&quot;-6'2&quot;)</td>
<td>BDCHT-XL</td>
</tr>
<tr>
<td>XXLarge</td>
<td>116-124cm (45&quot;-48&quot;)</td>
<td>188-194cm (6'2&quot;-6'4&quot;)</td>
<td>BDCHT-XXL</td>
</tr>
<tr>
<td>XXXLarge</td>
<td>124-132cm (48&quot;-51&quot;)</td>
<td>194-200cm (6'4&quot;-6'6&quot;)</td>
<td>BDCHT-XXXL</td>
</tr>
<tr>
<td>*XXXXLarge</td>
<td>132-140cm (51&quot;-54&quot;)</td>
<td>200-206cm (6'6&quot;-6'8&quot;)</td>
<td>BDCHT-XXXXXL</td>
</tr>
</tbody>
</table>

*Non-stock size. Please contact for MOQ and lead time.
**{BCAG} BIOCLEAN CLEARVIEW™ AUTOCLAVABLE GOGGLES**
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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Standards</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCAG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCAG-SL</td>
<td>Goggles</td>
<td></td>
</tr>
<tr>
<td>BCAG-SS</td>
<td>Spare Lens</td>
<td></td>
</tr>
</tbody>
</table>

**{BCAP} BIOCLEAN CLEARVIEW™ 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 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Standards</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCAP-SL</td>
<td>Goggles</td>
<td></td>
</tr>
<tr>
<td>BCAP-SS</td>
<td>Spare Lens</td>
<td></td>
</tr>
</tbody>
</table>

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
### BIOCLEAN STEELE™ STEEL TOECAP SHOES

**Slip-resistant & Antistatic**

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>US Size</th>
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</thead>
<tbody>
<tr>
<td>BSTC-03</td>
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<tr>
<td>BSTC-04</td>
<td>6</td>
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<td>BSTC-06</td>
<td>8</td>
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<tr>
<td>BSTC-07</td>
<td>9</td>
</tr>
<tr>
<td>BSTC-08</td>
<td>10</td>
</tr>
<tr>
<td>BSTC-09</td>
<td>11</td>
</tr>
<tr>
<td>BSTC-10</td>
<td>12</td>
</tr>
<tr>
<td>BSTC-11</td>
<td>13</td>
</tr>
<tr>
<td>BSTC-12</td>
<td>14</td>
</tr>
</tbody>
</table>

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

BIOCLEAN DURABLEU™ OVERBOOTS

- 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  EU Size
BDBL-16       XL

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY
### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDBO-14</td>
<td>14” (356mm) Blue</td>
</tr>
<tr>
<td>BDBO-16</td>
<td>16” (400mm) Blue</td>
</tr>
<tr>
<td>BDBO-18</td>
<td>18” (457mm) Blue</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-CPE165B</td>
<td>400mm</td>
</tr>
</tbody>
</table>
BIOCLEAN 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 | 16” (400mm) White
NSO018W | 18” (457mm) White

BIOCLEAN 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 | 16” (400mm) White
ESD018W | 18” (457mm) White
ESD018B | 18” (457mm) Blue

BIOCLEAN 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 | Size
--- | ---
BESD016W | 16” (400mm) White

BIOCLEAN ESD™ OVERSHOES

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 | 16” (400mm) White
ESD018W | 18” (457mm) White
ESD018B | 18” (457mm) Blue
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

Sterile version available on request

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

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 | Colour
--- | --- | ---
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.

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

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
## BIOCLEAN 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

## BIOCLEAN 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

## BIOCLEAN 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

## BIOCLEAN™ 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

---

NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY

---

Picture showing BCAG-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

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

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>25mm x 33m</td>
</tr>
<tr>
<td>White</td>
<td>12.5mm x 33m</td>
</tr>
<tr>
<td>White</td>
<td>50mm x 33m</td>
</tr>
<tr>
<td>Blue</td>
<td>12.5mm x 33m</td>
</tr>
<tr>
<td>Green</td>
<td>12.5mm x 33m</td>
</tr>
<tr>
<td>Red</td>
<td>12.5mm x 33m</td>
</tr>
<tr>
<td>Yellow</td>
<td>12.5mm x 33m</td>
</tr>
</tbody>
</table>

BIOCLEAN CLEARVIEW™ AUTOCLAVABLE GOGGLES LENS

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
**BIOCLEAN™ CLEANROOM LDPE ANTISTATIC BAGS**

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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRASBAGS85x100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BIOCLEAN STRETCHEE™ CLEANROOM POLYISOPRENE BANDS**

A valuable cleanroom accessory

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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Size</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSPB-280</td>
<td>280mm x 5mm x 0.8mm</td>
<td>Double PE bags – 1 kilo (370 bands approx.)</td>
</tr>
<tr>
<td>BSPB-50</td>
<td>50mm x 2mm x 1.1mm</td>
<td>Double PE bags – 1 kilo (4760 bands approx.)</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Re-order Code</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-BBPN-1</td>
<td></td>
</tr>
</tbody>
</table>

Minimum order quantity 2000 pieces (four cartons)

**NOT ALL ITEMS ARE CARRIED IN STOCK AND MAY HAVE TO BE SPECIAL ORDERED INITIALLY**
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