



## BioClean-D™ Lab Coat - Sterile S-BDLC

### Lightweight sterile garment, specially designed for protective use in cleanroom environments

- **Elevated comfort:** The BioClean-D™ Lab Coat Sterile S-BDLC is a sterile protective garment designed using low-linting, lightweight material, minimizing contamination risk while affording comfortable, easy-to-wear personal protection
- **ESD properties:** As it feature antistatic-coated fabric, the risk of electrostatic damage or interference is greatly reduced
- **Genuine convenience:** This sterile BioClean-D™ antistatic garment also boasts three deep pockets, press stud fastenings and open cuffs
- **Sterility assurance:** In addition, the hood is sterilized by gamma irradiation, with sterility assurance level (SAL) of 10<sup>-6</sup>



#### Key Features and Benefits

- **Low-linting lightweight fabric:** Fewer contamination risks
- **Antistatic-coated:** Controlled electrostatic dissipation
- **Press stud fastenings and deep pockets:** Added convenience, easy donning

#### Industries

- Laboratory and Research
- Laboratory Maintenance & Clean-Up
- Laboratory Research and Development
- Veterinary Services





# BioClean-D™ Lab Coat - Sterile S-BDLC

## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| Material                   | CleanTough™  |
| Audit Standards            | Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D   |
| Standards                  | ASTM F739, Partial Body Protection Only, CE 0598, EN 1149-5:2008, EN 1149-5:2018, EN 13934-1, EN 13935-2, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 13688:2013+A1:2021, EN ISO 14325, ISO 11137-1:2006, Category III, EN 13034:2005 + A1:2009  |
| Packaging Overview         | One piece per sealed inner PE bag; one inner bag per sealed outer PE bag; 30 outer bags per lined carton (30 pieces)   |
| Storage                    | Keep away from direct sunlight; store in a dry place and keep in the original packaging. Keep away from ozone sources. If products are properly stored, as indicated, they won't lose their performances or change characteristics significantly. If products could be affected by ageing or storage, the expiry date is mentioned on the packaging materials. |
| Country Of Origin          | China  |
| Sterilization Method       | GAMMA irradiation (25 kGy)   |
| Sterilization Minimum Dose | 25kGy  |
| Sterility Assurance Level  | 10 <sup>-6</sup>   |
| Cleanroom Class            | Non-Critical Environment   |
| Shelf Life                 | Three (3) years from date of manufacture.  |
| Construction               | Bound seams with single needle stitching   |
| Characteristics            | *NOTE: BioClean CleanTough material is static dissipative and, with a charge half decay time of 0.07 sec, and so are ideal for use in a static-safe environment.   |

### PARTICLE SHEDDING TEST RESULTS

| TEST                                 | RESULT                     |
|--------------------------------------|----------------------------|
| Particle Shedding (Helmke Drum Test) | ≥ 0.5µm (counts/min) <2000 |

### ASTM F739-12 TEST METHOD RESULTS

| DRUG                     | Mean Breakthrough Time (MBT), Minutes<br>Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.1 µg/cm <sup>2</sup> /min |
|--------------------------|--|
| CISPLATIN                | >240   |
| CARMUSTINE               | <6   |
| CYCLOPHOSAMIDE           | 217 (275,162,215)  |
| DOXORUBICINHYDROCHLORIDE | >240   |
| 5-FLUOROURACIL           | >240   |
| METHOTREXATE             | >240   |
| ETOPOSIDE                | >240   |
| PACLITAXEL               | <10  |
| THIOTEPA                 | 30 (28,30,33)  |

Results achieved under controlled laboratory conditions, by accredited external testing laboratory. \*For Bioclean D and Bioclean 2000, the chemical permeation results relates to the fabric performance for reference only. Seams and closures may have lower breakthrough times. We recommend garments with sealed seams such as Bioclean-C to be worn over the coverall for added protection against chemotherapy drugs handling.

### SIZE CHART

S-BDLC-S; Size: S, Chest: 84-92cm (33"-36"), Height: 164-170cm (5'4"-5'6")  
 S-BDLC-M; Size: M, Chest: 92-100cm (36"-39"), Height: 170-176cm (5'6"-5'9")  
 S-BDLC-L; Size: L, Chest: 100-108cm (39"-42"), Height: 176-182cm (5'9"-6'0")  
 S-BDLC-XL; Size: XL, Chest: 108-116cm (42"-45"), Height: 182-188cm (6'0"-6'2")  
 S-BDLC-2XL; Size: 2XL, Chest: 116-124cm (45"-48"), Height: 188-194cm (6'2"-6'4")

## MATERIAL PERFORMANCE TEST RESULTS

| TEST   | RESULT         | PERFORMANCE CLASS | PERFORMANCE STANDARD |
|--|----------------|-------------------|----------------------|
| Abrasion Resistance  | >10 cycles     | 1                 | EN12947-2            |
| Flex Cracking Resistance                                     | >50,000 cycles | 6                 | EN ISO 7854          |
| Puncture Resistance  | >5 N           | 1                 | ISO 13996            |
| Trapezoidal Tear Resistance Cross Direction (CD)             | >10 N          | 1                 | EN ISO 9073-4        |
| Trapezoidal Tear Resistance Machine Direction (MD)           | >10 N          | 1                 | EN ISO 9073-4        |
| Tensile Strength Cross Direction (CD)                        | >30 N          | 1                 | EN ISO 13934-1       |
| Tensile Strength Machine Direction (MD)                      | >30 N          | 1                 | EN ISO 13934-1       |
| Repellence to Liquids – 30% H <sub>2</sub> SO <sub>4</sub>   | >90%           | 3                 | ISO 6530             |
| Repellence to Liquids – 10% NaOH                             | >90%           | 3                 | ISO 6530             |
| Repellence to Liquids – O-Xylene                             | >90%           | 3                 | ISO 6530             |
| Repellence to Liquids – Butan-1-ol                           | >90%           | 3                 | ISO 6530             |
| Penetration by Liquids – 30% H <sub>2</sub> SO <sub>4</sub>  | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids – 10% NaOH                            | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids – O-Xylene                            | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids – Butan-1-ol                          | <1%            | 3                 | ISO 6530             |
| Seam Strength <sup>2</sup>                                   | >50 N          | 2                 | ISO 13935-2          |
| Electrostatic Charge Half Decay Time, t <sub>50</sub> (secs) | PASS           | N/A               | EN1149-3             |

1. Seam not destroyed
2. The material is static dissipative. Tested in accordance with EN1149-5.

## ORDERING INFORMATION

|        | SIZE        | S, M, L, XL, 2XL                                    |
|--------|-------------|---|
| S-BDLC | REORDER NO. | S-BDLC-S, S-BDLC-M, S-BDLC-L, S-BDLC-XL, S-BDLC-XXL |

For additional information visit us at [www.ansell.com](http://www.ansell.com), or call us at

### Europe, Middle East & Africa Region

Ansell Healthcare Europe NV  
T: +32 (0) 2 528 74 00  
F: +32 (0) 2 528 74 01

### Asia Pacific Region

Ansell Global Trading Center  
T: +603 8310 6688  
F: +603 8310 6699

### North America Region

Ansell Healthcare Products LLC  
US T: +1 800 800 0444  
US F: +1 800 800 0445  
CA T: +1-800-363-8340

### Latin America & Caribbean Region

Ansell Commercial Mexico S.A. de C.V.  
T: +52 442 248 1544 / 248 3133

### Australia

Ansell Limited  
T: +61 1800 337 041  
F: +61 1800 803 578

### UK

Ansell Nitritex  
T: +44 1638 663338  
F: +44 1638 668890

## Performance Standards and Regulatory Compliance



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