



# BioClean-D™ Coverall with Hood and Integrated Boots BDFC

## Hooded non-sterile coverall with boots, providing chemical and liquid splash protection

- **Reduced contamination risks:** The BioClean-D Coverall with Hood and Integrated Boots BDFC is low-linting and ISO cleanroom-compliant thanks to its lightweight CleanTough™ composition, ensuring contamination risks are kept to a minimum
- **Optimized protection:** This non-sterile disposable coverall features a front zip with a protective flap, which guards against liquid splashes and chemicals, while thumbs loops and an elasticated hood, back, cuffs and ankles offer a secure fit
- **Enhanced features:** This antistatic coverall is also equipped with integrated boots and slip-resistant soles, for added workplace safety in laboratory environments



### Key Features and Benefits

- **CleanTough™ fabric:** For lightweight, low-linting body protection
- **Front zip and protective flap:** Contaminant and liquid splash barrier
- **Integrated boots and anti-slip soles:** For head-to-toe cleanroom PPE

### Industries

- Controlled and Critical Environments
- Production and Manufacturing
- Pharmaceutical Manufacturing
- Biotechnology Manufacturing
- Medical Device Manufacturing





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## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

<b>Material</b>	CleanTough™
<b>Audit Standards</b>	ISO 14001, Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D, NEBB Certified Cleanrooms
<b>Standards</b>	ASTM F739, CE 0598, EN ISO 13688:2013, EN 1149-5:2018, EN 13934-1, EN 13935-2, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 14325, Category III, EN ISO 13982-1:2004 + A1:2010, EN 13034:2005 + A1:2009
<b>Packaging Overview</b>	One piece aseptically folded per sealed inner PE bag; one inner bag per sealed outer PE bag; 20 outer bags per lined carton (20 pieces). Please note: sizes 3XL & 4XL 15 pieces per carton. All sizes subject to minimum order quantity and lead time.  <b>More sustainable packaging:</b> Packed in recyclable plastic packaging and delivered in recycled cardboard shipper cases. Inner and outer bags and liner are made from polyethylene (PE) based film. Always check your local recyclable status as these materials may not be considered suitable for recycling in your location.
<b>Storage</b>	Store in a dry cool place 40°C away from direct sunlight and fluorescent light.
<b>Country Of Origin</b>	China
<b>Cleanroom Class</b>	Class 10/ISO 4
<b>Shelf Life</b>	Five (5) years from date of manufacture.
<b>Construction</b>	Bound seams with single needle stitching
<b>Characteristics</b>	*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)	≥ 0.5Qm (counts/min) <2000

### ASTM F739-12 TEST METHOD RESULTS

DRUG	Mean Breakthrough Time (MBT), Minutes Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.1 Qg/cm <sup>2</sup> /min
CISPLATIN	>240
CARMUSTINE	<6
CYCLOPHOSHAMIDE	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

BDFC-S; Size: S, Chest: 84-92cm (33"-36"), Height: 164-170cm (5'4"-5'6")  
 BDFC-M; Size: M, Chest: 92-100cm (36"-39"), Height: 170-176cm (5'6"-5'9")  
 BDFC-L; Size: L, Chest: 100-108cm (39"-42"), Height: 176-182cm (5'9"-6'0")  
 BDFC-XL; Size: XL, Chest: 108-116cm (42"-45"), Height: 182-188cm (6'0"-6'2")  
 BDFC-2XL; Size: 2XL, Chest: 116-124cm (45"-48"), Height: 188-194cm (6'2"-6'4")  
 BDFC-3XL; Size: 3XL, Chest: 124-132cm (48"-51"), Height: 194-200cm (6'4"-6'6")  
 BDFC-4XL; Size: 4XL, Chest: 132-140cm (51"-54"), Height: 200-206cm (6'6"-6'8")



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## MATERIAL PERFORMANCE TEST RESULTS

TEST	RESULT	PERFORMANCE CLASS	PERFORMANCE STANDARD
Abrasion Resistance	>10 cycles	1	EN 12947-2
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	>80%	2	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
Inward leakage of aerosols of fine particles <sup>1</sup>	PASS	N/A	EN ISO 13982-2
Resistance to penetration by spray (Spray Test) <sup>1</sup>	PASS	N/A	EN ISO 17491-4
Seam Strength <sup>2</sup>	>50 N	2 (Main Fabric)	ISO 13935-2
Electrostatic Charge Half Decay Time, t <sub>50</sub> (secs)	PASS	N/A	EN1149-3

1. All interfaces with additional PPE were taped during testing, as required by the standards.  
 2. Seam not destroyed., 3. The material is static dissipative. Tested in accordance with EN1149-5.

## ORDERING INFORMATION

	SIZE	S, M, L, XL, 2XL	3XL, 4XL
BDFC	REORDER NO.	BDFC-S, BDFC-M, BDFC-L, BDFC-XL, BDFC-2XL	BDFC-3XL, BDFC-4XL

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## Performance Standards and Regulatory Compliance



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