

## BioClean-D™ Overboots BDOB-L

# Longer-length protective overboots, for more complete personal protection

- Added protection: At 500mm in length, BioClean-D™ Overboots BDOB-L are longer than the standard alternative, offering wearers more comprehensive personal protection
- Reduced contamination risks: These protective overboots are also made from CleanTough™ low-linting material, minimizing contamination risks when entering the cleanroom environment
- Optimized fit: With tie fastenings at the top and at ankle level, they are easy to wear and offer a secure, adjustable fit
- Enhanced features: These overboots' slipresistant sole feature ensures added security, preventing potential workplace injuries

#### Key Features and Benefits

- Longer length (500mm): For greater protective coverage
- Low-linting lightweight material: Lower contamination risks
- Tie fastenings and slip-resistant sole: Secure fit and safe use

#### **Industries**

- Controlled and Critical Environments
- Production and Manufacturing
- Pharmaceutical Manufacturing
- Biotechnology ManufacturingMedical Device Manufacturing
- Laboratory and Research









# BioClean-D™ Overboots BDOB-L

#### 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 ISO 13688:2013, EN 1149-5:2008, EN 1149-5:2018, EN 13934-1, EN 13935-2, EN 530, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 13688:2013+A1:2021, EN ISO 14325, Category III, EN 13034:2005 + A1:2009, EN 13034:2005 + A1:2009
Packaging Overview	30 pieces per sealed inner PE bag; one inner bag per sealed outer PE bag; five outer bags per lined carton (150 pieces)
Country Of Origin	Sri Lanka
Cleanroom Class	Class 10/ISO 4
Shelf Life	Five (5) 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

7.01 III 1700 12 1201 III211105 1200210				
DRUG	Mean Breakthrough Time (MBT), Minutes Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.1 μg/cm2 /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.

#### SIZE CHART

Universal





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#### MATERIAL PERFORMANCE TEST RESULTS

TEST	RESULT	PERFORMANCE CLASS
Abrasion Resistance	10 to 100 cycles	1
Flex Cracking Resistance	5,000 to 15,000 cycles	3
Puncture Resistance	8 N	1
Trapezoidal Tear Resistance Cross Direction (CD)	CD 29.3 N	2
Trapezoidal Tear Resistance Machine Direction (MD)	MD 55.5 N	3
Tensile Strength Cross Direction (CD)	CD 48 N	1
Tensile Strength Machine Direction (MD)	MD 97 N	2
Repellence to Liquids - 30% H <sub>2</sub> SO <sub>4</sub>	96.3%	3
Repellence to Liquids - 10% NaOH	97.6%	3
Repellence to Liquids - O-Xylene	95.7%	2
Repellence to Liquids - Butan-1-ol	96.6%	3
Penetration by Liquids - 30% H <sub>2</sub> SO <sub>4</sub>	0%	3
Penetration by Liquids - 10% NaOH	0%	3
Penetration by Liquids - O-Xylene	0%	3
Penetration by Liquids - Butan-1-ol	0%	3
Inward leakage of aerosols of fine particles <sup>1</sup>	Pass	N/A
Resistance to penetration by spray (Spray Test)1	Pass	
Seam Strength <sup>2</sup>	70 N	2
Electrostatic Charge Half Decay Time, t <sub>50</sub> (secs)	0.07	PASS

<sup>1. 1.</sup> All interfaces with additional PPE were taped during testing, as required by the standards.

#### ORDERING INFORMATION

	SIZE	Universal
BDOB-L	REORDER NO.	BDOB-L

Performance Standards and Regulatory Compliance







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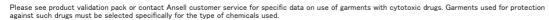
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<sup>2.</sup> Seam not destroyed