



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' slip-resistant 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 Manufacturing
- Medical 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 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, Category III, 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) More sustainable packaging: 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. |
| 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, 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) | ≥ 0.5Qm (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 ² /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

Universal



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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 ₂ SO ₄ | >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 ₂ SO ₄ | <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 ² | >50 N | 2 | ISO 13935-2 |
| Electrostatic Charge Half Decay Time, t ₅₀ (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 | Universal |
|--------|-------------|-----------|
| BDOB-L | REORDER NO. | BDOB-L |

Performance Standards and Regulatory Compliance



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