



# BioClean-C™ Apron with Sleeves - Sterile S-BCAS

## Sterile lightweight protective apron, guarding against a range of chemotherapy drugs

- **Assured protection:** The BioClean-C™ Apron with Sleeves - Sterile S-BCAS is an ideal choice as a chemotherapy protective apron, as it is tested against a wide range of chemotherapy drugs
- **Reduced contamination risks:** This protective apron is made from lightweight, low-linting material
- **Added strength:** Ultrasonically bonded with protective tape, this protective apron is ideal for protection against chemotherapy drugs
- **Enhanced fit:** With an adjustable neck fastening and tie tapes at the rear, it allows wearers to find a comfortable, consistent fit for them



### Key Features and Benefits

- **Permeation standard ASTM F739-12:** Resistance to varied cytotoxic drugs
- **CleanTough™ material:** Lightweight, low-linting, contamination-limiting
- **Ultrasonically bonded seams with protective tape:** Added protective coverage against a wide range of chemotherapy drugs

### Industries

- Controlled and Critical Environments
- Production and Manufacturing
- Laboratory and Research





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## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>Material</b>                   | CleanTough™   |
| <b>Audit Standards</b>            | Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D  |
| <b>Standards</b>                  | ASTM F739, CE 0598, EN 1149-5:2008, EN 13934-1, EN 13935-2, EN 530, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 14325, ISO 11137-1:2006, Partial Body Protection Only, Category III, EN 14605:2005 + A1:2009, EN 13034:2005 + A1:2009 |
| <b>Packaging Overview</b>         | One piece per sealed inner PE bag; one inner bag per sealed outer PE bag; 40 outer bags per lined carton (40 pieces)  |
| <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>Sterilization Method</b>       | GAMMA irradiation (25 kGy)  |
| <b>Sterilization Minimum Dose</b> | 25kGy   |
| <b>Sterility Assurance Level</b>  | 10 <sup>-6</sup>  |
| <b>Cleanroom Class</b>            | Class 10/ISO 4 & EU GMP Grade A   |
| <b>Shelf Life</b>                 | Three (3) years from date of manufacture.   |
| <b>Construction</b>               | Ultrasonically bonded sleeve seams with protective tape & 100% polyester elasticated cuffs.   |
| <b>Characteristics</b>            | Low particulating   |

### PARTICLE SHEDDING TEST RESULTS

| TEST                                 | RESULT                     |
|--------------------------------------|----------------------------|
| Particle Shedding (Helmke Drum Test) | ≥ 0.5Qm (counts/min) <1700 |

### 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 Qg/cm <sup>2</sup> /min |
|--------------------------|--|
| CISPLATIN                | >480   |
| CARMUSTINE               | >240   |
| CYCLOPHOSAMIDE           | >480   |
| DOXORUBICINHYDROCHLORIDE | >480   |
| 5-FLUOROURACIL           | >480   |
| METHOTREXATE             | >480   |
| ETOPOSIDE                | >480   |
| PACLITAXEL               | >480   |
| THIOTEPA                 | >456   |

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

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



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## MATERIAL PERFORMANCE TEST RESULTS

| TEST  | RESULT     | PERFORMANCE CLASS |
|---|------------|-------------------|
| Abrasion Resistance   | >10 cycles | 1                 |
| Puncture Resistance   | >5 N       | 1                 |
| Trapezoidal Tear Resistance Cross Direction (CD)            | >10 N      | 2                 |
| Trapezoidal Tear Resistance Machine Direction (MD)          | >10 N      | 3                 |
| Tensile Strength Cross Direction (CD)                       | >30 N      | 1                 |
| Tensile Strength Machine Direction (MD)                     | >30 N      | 2                 |
| Repellence to Liquids - 30% H <sub>2</sub> SO <sub>4</sub>  | >90%       | 3                 |
| Repellence to Liquids - 10% NaOH                            | >90%       | 3                 |
| Repellence to Liquids - O-Xylene                            | >90%       | 1                 |
| Repellence to Liquids - Butan-1-ol                          | >90%       | 3                 |
| Penetration by Liquids - 30% H <sub>2</sub> SO <sub>4</sub> | <1%        | 3                 |
| Penetration by Liquids - 10% NaOH                           | <1%        | 3                 |
| Penetration by Liquids - O-Xylene                           | <1%        | 3                 |
| Penetration by Liquids - Butan-1-ol                         | <1%        | 3                 |
| Seam Strength <sup>1</sup>                                  | >50 N      | 2                 |

## ORDERING INFORMATION

|        | SIZE        | S, M, L, XL                             |
|--------|-------------|---|
| S-BCAS | REORDER NO. | S-BCAS-S, S-BCAS-M, S-BCAS-L, S-BCAS-XL |

### Performance Standards and Regulatory Compliance



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