



## BioClean-C™ Apron - Sterile S-BCDA

# Sterile lightweight protective apron, guarding against various chemotherapy drugs

- **Assured protection:** The BioClean-C™ Apron - Sterile S-BCDA satisfies permeation standard ASTM F739-12, meaning it is an ideal safety apron against various chemotherapy drugs
- **Reduced weight and contamination risks:** This work apron is designed using lightweight CleanTough™ material, minimizing contamination risks due to its low-linting nature
- **Improved fit:** Equipped with tie tapes and an adjustable neck fastening, this chemical-resistant apron offers users the possibility of finding a suitable fit and simplifies the donning process

### Key Features and Benefits

- **Permeation standard ASTM F739-12:** Chemotherapy drug resistance
- **CleanTough™ material:** Low-linting, lightweight and contaminant-reducing
- **Neck fastening and tie tapes:** Stress-free donning and improved fit

### Industries

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





# BioClean-C™ Apron - Sterile S-BCDA

## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material                   | CleanTough™                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Audit Standards            | Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D                                                                                                                                                                                                                                                                                                                                                                                |
| Standards                  | ASTM F739, CE 0598, ISO 11137-1:2006, EN 13034:2005 + A1:2009, EN 13934-1, EN 13935-2, EN 530, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 14325, Partial Body Protection Only, Category III, EN 14605:2005 + A1:2009, UKCA                                                                                                                                                                                                                                 |
| Packaging Overview         | One piece per sealed inner PE bag; one inner bag per sealed outer PE bag; 50 outer bags per lined carton (50 pieces)<br><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. |
| 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            | Class 10/ISO Class 4 & EU GMP Grade A/B and other sterile cleanrooms                                                                                                                                                                                                                                                                                                                                                                                        |
| Shelf Life                 | Three (3) years from date of manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Construction               | Adjustable neck, tie fastening at waist                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Characteristics            | 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               | >480                                                                                                                                                                   |
| 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

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



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## MATERIAL PERFORMANCE TEST RESULTS

| TEST                                                       | RESULT     | PERFORMANCE CLASS | PERFORMANCE STANDARD |
|------------------------------------------------------------|------------|-------------------|----------------------|
| Abrasion Resistance                                        | >10 cycles | 1                 | EN 12947-2           |
| Puncture Resistance                                        | >5 N       | 1                 | EN 863               |
| 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> O <sub>2</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> O <sub>2</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>1</sup>                                 | >50 N      | 2                 | ISO 13935-2          |

## ORDERING INFORMATION

|        | SIZE        | S, M, L                      |
|--------|-------------|------------------------------|
| S-BCDA | REORDER NO. | S-BCDA-S, S-BCDA-M, S-BCDA-L |

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## Performance Standards and Regulatory Compliance



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