



# 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

Material	CleanTough™
Audit Standards	Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D
Standards	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 13688:2013, EN ISO 14325, ISO 11137-1:2006, Partial Body Protection Only, Category III, EN 14605:2005 + A1:2009, EN 14605:2005 + A1:2009, EN 13034:2005 + A1:2009
Packaging Overview	One piece per sealed inner PE bag; one inner bag per sealed outer PE bag; 40 outer bags per lined carton (40 pieces)
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 4 & EU GMP Grade A
Shelf Life	Three (3) years from date of manufacture.
Construction	Ultrasonically bonded sleeve seams with protective tape & 100% polyester elasticated cuffs.
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 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	>240
CYCLOPHOSHAMIDE	>240
DOXORUBICINHYDROCHLORIDE	>240
5-FLUOROURACIL	>240
METHOTREXATE	>240
ETOPOSIDE	<6
PACLITAXEL	>240
THIOTEPA	55 (46,88,31)

Results achieved under controlled laboratory conditions, by accredited external testing laboratory.

### 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 to 100 cycles	1
Puncture Resistance	10 N	1
Trapezoidal Tear Resistance Cross Direction (CD)	CD 32.3 N	2
Trapezoidal Tear Resistance Machine Direction (MD)	MD 50.6 N	3
Tensile Strength Cross Direction (CD)	CD 47 N	1
Tensile Strength Machine Direction (MD)	MD 94 N	2
Repellence to Liquids - 30% H <sub>2</sub> SO <sub>4</sub>	99.0%	3
Repellence to Liquids - 10% NaOH	98.4%	3
Repellence to Liquids - O-Xylene	91.4%	1
Repellence to Liquids - Butan-1-ol	93.9%	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
Seam Strength <sup>1</sup>	74 N	2

1. Seam not destroyed

## 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



For additional information visit us at [www.ansell.com](http://www.ansell.com), or call us at

#### Europe, Middle East & Africa Region

Ansell Healthcare Europe NV  
T: +32 (0) 2 528 74 00  
F: +32 (0) 2 528 74 01

#### Asia Pacific Region

Ansell Global Trading Center  
T: +603 8310 6688  
F: +603 8310 6699

#### North America Region

Ansell Healthcare Products LLC  
US T: +1 800 800 0444  
US F: +1 800 800 0445  
CA T: +1-800-363-8340

#### Latin America & Caribbean Region

Ansell Commercial Mexico S.A. de C.V.  
T: +52 442 248 1544 / 248 3133

#### Australia

Ansell Limited  
T: +61 1800 337 041  
F: +61 1800 803 578

#### UK

Ansell Nitritex  
T: +44 1638 663338  
F: +44 1638 668890



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