

### USP 797 & 800 Compliance Specialists

Everything you need to achieve and maintain a compliant cleanroom environment

# **Sterile Drop-Down Garment**

with Hood, CleanTough Fabric, Gama Irradiated

BIOCLEAN-D™
DROP-DOWN
Sterile Garment with Hood
S-BDSH

#### **About**

The BioClean-D™ Drop-down Garment with Hood is a sterile antistatic disposable garment manufactured from low-linting durable CleanTough™ material. It's unique design offers the world's first true aseptic gowning technique. With internal coloured tabs to indicate safe touch points to prevent touching the outside surface, innovative up and over donning design to eliminate the risk of the garment touching the floor, strategically placed quick release tabs to hold and remove during zip closure and removable zip tab to complete and ensure aseptic donning.

EXCEPTIONAL COMFORT AND PROTECTION

ANTISTATIC & LOW-LINTING

UNIQUE UP AND OVER DESIGN

ASPECTIC DONNING TECHNIQUE

## **Specifications**

#### MATERIAL:

CleanTough™ material

## COLOUR:

White

#### **CONSTRUCTION:**

Bound seams with single needle stitching

#### **CHARACTERISTICS:**

Antistatic to EN 1149-1 & low particulating

#### **COMPATIBILITY:**

ISO Class 4 & EU GMP Grade A

## STERILIZATION:

Gamma irradiation

#### **Features**

- Elasticated back, hood, cuffs and ankles
- Foot-loop to aid smooth closure of zip
- · Thumb loops to ensure a secure hold
- Quick release press stud tabs for aseptic donning
- Low-linting & durable CleanTough™ material
- Tested against permeation standard ASTM D6978-05





Billy Bioclean™ Bioclean's™ GMP disposable garments

represents compatible





Carter-Health Disposables, LLC Phone: (407) 296.6689 Web: www.Carter-Health.com

# **Quality Standards**

- Manufactured in a facility holding ISO 9001:2008
- Tested against permeation standard ASTM D6978-05 for cytotoxic drugs
- · Processed in an NEBB certified ISO Class 4 environment
- Tested against standard EN 1149-1 protective clothing electrostatic properties
- Sterilized in accordance with ISO 11137-1:2006

## **Sterilization**

Method: Gamma irradiation Minimum Dose: 25kGy Sterility Assurance Level: 10<sup>-6</sup>

## **Shelf Life & Storage**

Three (3) years from date of manufacture. Store in a dry, cool place (<40°C) away from direct sunlight and fluorescent light.

## **Performance Test Results**

TEST	RESUL	Т	PERFORMANCE CLASS (EN 14325)	
Abrasion Resistance	10 to 100 cycles		1	
Flex Cracking Resistance	5,000 to 15,000 cycles		3	
Trapezoidal Tear Resistance	MD 50.8 N		3	
Trapezoidal Tear Resistance	CD 29.5 N		2	
Tensile Strength	MD 79.3 N		2	
Tensile Strength	CD 59.4 I	N	1	
Puncture Resistance	5.9 N		2	
Repellence to Liquids	30% H <sub>2</sub> SO <sub>4</sub>	96.9%	3	
	10% NaOH	98.0%	3	
	O-Xylene	94.6%	2	
	Butan-1-ol	95.4%	3	
Penetration by Liquids	30% H <sub>2</sub> SO <sub>4</sub>	0%	3	
	10% NaOH	0%	3	
	O-Xylene	0%	3	
	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) <sup>1</sup>	Pass		N/A	
Resistance to Ignition	Pass		N/A	
Seam Strength <sup>2</sup>	103.2 N		3	
Surface Resistivity	1.1 x 10 <sup>10</sup> Ω		N/A	

<sup>&</sup>lt;sup>1</sup>All interfaces with additional PPE were taped during testing, as required by the standards. <sup>2</sup>Seam not destroyed.

# **Particle Shedding Test Results**

TEST	RESULT	CATEGORY (IEST-RP-CC003.3)	
Particle Shedding (Helmke Drum Test)	<2000	Category I	







Carter-Health Disposables, LLC

Phone: (407) 296.6689 Web: www.Carter-Health.com

# **CleanTough™ Material - ASTM D6978-05 Test Results**

Breakthrough detection time (minutes)

Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.01 µg/cm²/min

CISPL	ATIN	CARMUSTINE	CYCLO- PHOSPHA- MIDE	DOXO-RUBICIN HYDRO- CHLORIDE	5- FLUORO- URACIL	METHO- TREXATE	ETOPOSIDE	PACLITAXEL	THIOTEPA
>4	80	>480	>480	>480	>480	>480	>480	>480	>480



