

## Superior High Consequence Infectious Disease Protection

**ViroGuard®** is designed to protect healthcare workers who are providing care to a patient with confirmed Ebola or another HCID or PUI who is clinically stable and does not have bleeding, vomiting, or diarrhea, i.e. a **dry patient**.

**ViroGuard®** fabric passes ASTM F1670 and ASTM F1671 for blood and bloodborne pathogens.

**ViroGuard® 2** is designed to protect healthcare workers who are providing care to a patient with confirmed Ebola or another HCID or PUI who is clinically unstable or has bleeding, vomiting, or diarrhea, i.e. a **wet patient**.

**ViroGuard® 2** fabric and seams pass ASTM F1670 and F1671 for blood, bodily fluids, and bloodborne pathogens.

### Available Garments



**Blue Coverall with Attached Hood & Boots, Storm Flap Zipper Cover**

#2404  
Small - 5X  
25 per case



**Blue Coverall with Hood Only, Elastic Wrists & Ankles, Storm Flap Zipper Cover**

#2407  
Small - 5X  
25 per case

### Physical Properties

TEST CONDUCTED	TEST METHOD	RESULTS
Tensile Strength - Machine Direction	ASTM D5034	46 lbs
Tensile Strength - Cross Direction	ASTM D5034	79.1 lbs
Trapezoidal Tear - Machine Direction	ASTM D5587	13.2 lbs
Trapezoidal Tear - Cross Direction	ASTM D5587	5.4 lbs
Elongation - Machine Direction	ASTM D5034	19.90%
Elongation - Cross Direction	ASTM D5034	154.20%
Mullen Burst	Method D3786	33.6 psi

### Available Garments



**Coverall with Boots Only, Latex-Free Elastic Wrists, Thumb & Middle Finger Loops at Cuff, Zipper Front with Sealable Storm Flap, Double-sided tape at wrists for glove adhesion, Mandarin collar with Velcro® closure at neck, Red fabric pull tab on Zipper, Taped Seams**

#W2501  
Small - 4XL  
25 per case



**White Coverall, Latex-Free Elastic Wrists & Ankles, Thumb & Middle Finger Loops at Cuff, Zipper Front with Sealable Storm Flap, Double-sided Tape at Wrists for glove Adhesion, Mandarin collar with Velcro® closure at neck, Red fabric pull tab on Zipper, Taped Seams**

#W2502  
Small - 4XL  
25 per case



**White Hood, Taped Seams, Latex-Free Elastic Face, Hook & Loop closure**

#W2561  
Universal size  
100 per case



**White Boot Cover, Latex-Free Elastic Top & Ankle, Skid-Resistant Sole, Taped Seams**

#W2505-L      #W2506-XL  
Height: 17"      Height: 23"  
100 per case      100 per case

**Additional Testing on Following Page**



### Viroguard® Test Data

#### Agent Testing

AGENT	TEST METHOD	TEST TIME	RESULTS
Carbon Disulfide (99%)	ASTM F 903	> 60 minutes	Pass
Dichloromethane (99%)	ASTM F 903	> 60 minutes	Pass
N-Hexane (99%)	ASTM F 903	> 60 minutes	Pass
Sodium Hydroxide (50%)	ASTM F 903	> 60 minutes	Pass
Sodium Hypochlorite (6%) (Household Bleach)	ASTM F 903	> 60 minutes	Pass
Sulfuric Acid (97%)	ASTM F 903	> 60 minutes	Pass
Tetrahydrofuran (99%)	ASTM F 903	> 60 minutes	Pass

BARRIER PROPERTIES	TEST METHOD	RESULTS
Hydrohead	AATCC-127	255.2 cm
Blood Penetration	ASTM F1670	Pass
Bloodborne Pathogens	ASTM F1671	Pass



### ViroGuard® 2 Test Data

AGENT	TEST	COMPONENT	RESULT
Blood	ASTM F1670	Fabric	Pass
Bloodborne Pathogens	ASTM F1671	Fabric	Pass
Blood	ASTM F1670	Seams	Pass
Bloodborne Pathogens	ASTM F1671	Seams	Pass

PHYSICAL PROPERTY	TEST	RESULT
Weight	ASTM D3776	2.7 oz/y <sup>2</sup>
Tensile Strength, Machine Direction	ASTM D5034	37.1 lbs
Tensile Strength, Cross Direction	ASTM D5034	27.5 lbs
Tear Strength, Machine Direction (Trapezoid)	ASTM D1117	12.8 lbs
Tear Strength, Cross Direction (Trapezoid)	ASTM D1117	6.8 lbs
Ball Burst Strength	ASTM D3787	35 lbs
Air Permeability	ASTM D737	<0.55 cfm

#### Features developed with healthcare workers' input:



**Thumb & Finger Loops**  
Prevents sleeves from riding up to prevent skin exposure.



**Double-sided tape around the wrists**  
Helps keep gloves in place.



**Large zipper pull with red fabric pull tab**  
Easier to see and grab.



**Mandarin collar with Velcro closure**  
Adjustable collar creates a better seal around the neck.



**Zipper front with sealable storm flap - has starter tab for tape**  
Easier for a gloved hand to pull & expose the tape for sealing storm flap.



**Visible sizing tag**  
Helps materials management teams identify size easily when suits are removed from the box.