

INTERNATIONAL
**ENVIRO
GUARD**



Disposable Protective Clothing & Surface Protection

INDUSTRIAL CATALOG

v2 2022

 [INT-ENVIROGUARD.COM](https://www.int-enviroguard.com)

 **800.345.5972**

TABLE OF CONTENTS

Polypropylene.....	1	Chemsplash® 1	12
SMS.....	2	Chemsplash® 2	14
Body Filter 95+®	4	ViroGuard®	16
Accessories	5	ViroGuard® 2.....	18
MicroGuard MP®	6	Enviromat®	20
ValuGuard MP™	8	CarpetGuard™	20
PyroGuard FR®	9	Suit Yourself™	21
PyroGuard CRFR™	10		

HOW TO USE THE CATALOG

In order to help you understand which of our products can be used in which applications, we've created relevant page reference icons. On the top right of each applicable product you will see an icon or a series of icons. These icons illustrate the applicable application for the product.



Dirt, Particulates,
Grime, Dust



Remediation



Infectious
Disease



Chemical
Splash



Sparks /
Flames



Remediation



Dirt, Particulates,
Grime, Dust

LIGHTWEIGHT PROTECTION FOR NON-HAZARDOUS ENVIRONMENTS

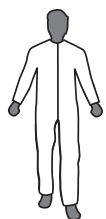
Economical protection against dirt, grime and particulates in non-hazardous environments.

Breathable, lightweight, fabric helps keep wearer cool. Possible applications include food processing, construction, pharmaceuticals, environmental cleanup and more. Low-cost protection against dirt and grime.

- Lightweight, breathable fabric
- Latex-free
- Low-cost solution for protecting workers against dirt and grime
- Polypropylene is appropriate for wear in non-hazardous environments



Available Polypropylene Garments



Coverall,
Elastic Wrists,
Open Ankles

Size: Large - 5XL
25 per case

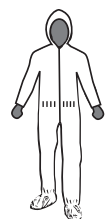
#2012



Blue Coverall,
Elastic Wrists,
Open Ankles

Size: Large - 5XL
25 per case

#N2012



Coverall with
Attached Hood
& Boots

Size: Large - 5XL
25 per case

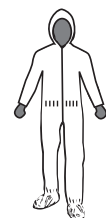
#2019



Blue Coverall
with Attached
Hood & Boots

Size: Large - 5XL
25 per case

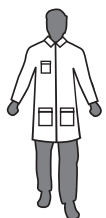
#N2019



Heavyweight Coverall
with Attached Hood
& Boots

Size: Large - 5XL
25 per case

#2029



Lab Coat with
3 Pockets, Knit
Wrists and Collar

Size: Medium - 5XL
30 per case

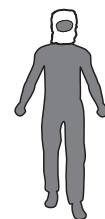
#K2045



Lab Coat,
No Pockets,
Elastic Wrists

Size: Medium - 5XL
30 per case

#2046E



"Ninja Hood"
Face and
Head Cover

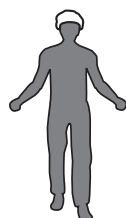
White #NH2000
1000 per case



Blue Lab Coat,
No Pockets, Knit
Wrists & Collar

Size: Medium - 4XL
30 per case

#K2047DB



Bouffant

White
19" #S110NW-19
21" #S110NW-21
24" #S110NW-24
28" #S110NW-28

Blue
21" #S110NW-21B
24" #S110NW-24B

All Options Packed
1,000 per case

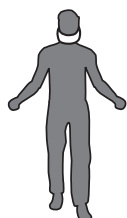


Pleated Bouffant

White
19" #S110NW-19PL
21" #S110NW-21PL
24" #S110NW-24PL

Blue
21" #S110NW-21BPL
24" #S110NW-24BPL

All Options Packed
1,000 per case



Pleated
Beard Restraint,
Bulk Pack

1000 per case
#S112NW



Anti-Skid
Shoe Cover

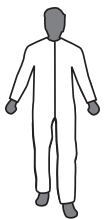
Size:
#V3200 (Blue, XL)
#V3100 Universal (Blue, 3XL)
#V3200W (White, XL)
150 pairs per case

PARTICULATE AND LIGHT LIQUID SPLASH PROTECTION

Available in two different colors. Storm flap over zipper adds an extra layer of protection. Possible applications include asbestos and lead abatement, mold remediation, manufacturing, assembly operations and more.

- Wider, gusseted crotch gives wearer more room to move in all directions without ripping fabric
- Elastic back stretches with user for more comfort and better tear resistance
- Storm flap over zipper adds an extra layer of protection
- Three-layer SMS fabric is lightweight and breathable

Available SMS Garments



White SMS Coverall,
Elastic Wrists,
Open Ankles

Size: Medium - 5XL
25 per case

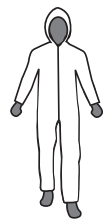
#2222



White SMS Coverall,
Elastic Wrists
& Ankles

Size: Medium - 5XL
25 per case

#2223



White SMS Coverall
with Attached Hood,
Elastic Wrists & Ankles

Size: Medium - 5XL
25 per case

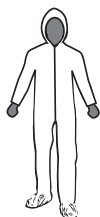
#2225



Blue SMS Coverall
with Attached Hood,
Elastic Wrists & Ankles

Size: Medium - 5XL
25 per case

#2225B



White SMS Coverall
with Attached
Hood & Boots, Elastic Wrists

Size: Medium - 5XL
25 per case

#2229



Blue SMS Coverall
with Attached Hood
& Boots

Size: Medium - 5XL
25 per case

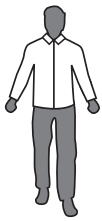
#2229B



Remediation



Dirt, Particulates,
Grime, Dust



White SMS
Long Sleeve Shirt,
Open Wrists, No pockets

Size: Medium - 4XL
30 per case

#2201



White SMS
Lab Coat,
Elastic Wrists,
No pockets

Size: Medium - 4XL
30 per case

#2246



White SMS Lab Coat
with 3 Pockets,
Knit Wrists and
Collar

Size: Medium - 4XL
30 per case

#K2248



Blue SMS Lab Coat
with 3 Pockets,
Knit Wrists and
Collar

Size: Medium - 4XL
30 per case

#K2248B

About SMS Fabric

From surgical face masks to cartridge filters to safety clothing and sheets, spunbond meltblown spunbond, or SMS, is a tri-laminate, non-woven fabric commonly used in medical environments. As the name implies, it consists of three layers - a top layer, which consists of spunbond polypropylene (PP), a middle layer, which consists of meltblown PP, and a final, bottom layer that also consists of spunbond PP. Layered fabric helps make SMS strong and durable to protect against light liquid splashes and sprays, while also providing an excellent particulate barrier.

Understanding the SMS fabric layers

Spunbond PP: This layer of fabric does not use chemicals and consists of a web of spun polypropylene. It is lightweight with high air permeability and has high tear and abrasion resistance.

Meltblown PP: The middle layer of SMS consists of meltblown PP. A melted polymer is blown with hot air to stretch it to create thin microfibers or filaments. This process ensures the microfibers are randomly laid to create a nonwoven and self-bonded web as the polymer cools. The web is then compressed to create the fabric layer.

Excellent dust, particulate, & liquid barrier for light splashes and sprays

Breathable

PARTICULATES

LIQUIDS

BREATHABLE

Spunbond Polypropylene

Meltblown Polypropylene

Spunbond Polypropylene

#2225



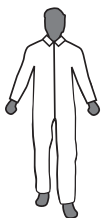
SUPERIOR PARTICLE & OVERSPRAY PROTECTION

Provides breathable protection with a holdout of particulate size down to 0.3 microns up to 99% efficiency. Similar performance to that of an N-95 respirator!

Body Filter 95+® protects the wearer against dangerous particulates while providing additional relief from heat build-up. Exceptional abrasion and tear strength makes this garment suitable for many tough environments including dirt, mold, dust in addition to the grease and grime found in industrial settings. Body Filter 95+® is also effective in over-spray and light splash situations such as paint spray booths. This leading-edge garment provides the best overall value in comfort and protection for your team.

- Designed for superior airflow and breathability compared to many competitive fabrics like Tyvek®
- Wider, gusseted crotch gives wearer more room to move in all directions without ripping fabric
- Roomy, seamless shoulder area resists tears and provides more protection in key exposure area
- Holdout of particulate size down to 0.3 microns up to 99% efficiency

Available Body Filter 95+® Garments



Coverall with Elastic
Wrists & Open Ankles

Size: Medium - 4XL
25 per case

#4012



Coverall with Attached
Hood, Elastic Wrists & Ankles

Size: Medium - 4XL
25 per case

#4028



Coverall with Attached
Hood & Boots, Elastic Wrists

Size: Medium - 4XL
25 per case

#4014



Remediation

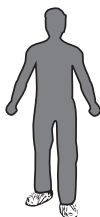


Dirt, Particulates,
Grime, Dust



Sleeves, 21" Length,
Elastic on Both Ends

Length: 21"
200 per case
#4065



Shoe Covers
#4100
Standard with
Anti-Skid Sole

Universal Size
100 pairs per case

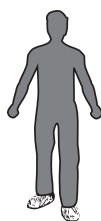
Body Filter 95+®

TEST CONDUCTED	TEST METHOD	TEST RESULT
Tensile Strength - Machine Direction	ASTM D5034	16.3 lbs
Tensile Strength - Cross Direction	ASTM D5034	25.4 lbs
Trapezoidal Tear - Machine Direction	ASTM D5587	4.8 lbs
Trapezoidal Tear - Cross Direction	ASTM D5587	8.5 lbs
Mullen Burst	ASTM D3786	29.1 psi
Fabric Thickness	ASTM D1777	0.47 mm
Air Permeability	Method D737 (20 Pa)	8.65 cfm
Penetration*	TSI 8130	0.0548%

* Tested at a flow rate of 2.3 liters/min., 100 cm² filter area using a sodium chloride aerosol having a mean particle size of 0.3 microns



ACCESSORIES



FirmGrip Non-Skid
Shoe Cover, Large

Fits size 6-11
150 pairs per case

#3701 (White)
#3701B (Blue)



FirmGrip Non-Skid
Shoe Cover, Extra Large

Fits size 12-16
150 pairs per case

#3703 (White)
#3703B (Blue)



Heavy Duty CPE
Shoe Covers

Size: Universal
150 pairs per case

#3407 (White)
#3407B (Blue)



Blue PE Shoe Cover

Fits up to a men's size 12 1/2 shoe
250 pairs per case

#3209



Super Heavy Duty CPE Shoe Cover

Fits up to a men's size 12 1/2 shoe
150 pairs per case

#3417 (XL, White)
#3417B (XL, Blue)

All masks: General Use Masks, Not intended for use by Healthcare Professionals.



3-ply Pleated Face Mask

Packed: 50 masks per box,
40 boxes per case
(2,000 total masks/case)

Light blue #2804



Washable Cotton Blend Face Mask

Packed: 10 masks/bag, 60 bags/case,
600 total masks/case
Material: Cotton/Polyester Blend

White #2914W
Black #2914B
Pink #2914P



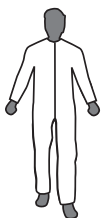
SUPERIOR LIQUID & PARTICLE PROTECTION

MicroGuard MP® incorporates our state-of-the-art lamination technology, creating a microporous garment with a superior particle and liquid splash barrier.

The latest line of quality garments delivers protection and comfort through a strong and durable fabric in a suit designed for worker comfort. The seamless shoulder area provides significantly more room allowing workers to freely move their arms and shoulders without ripping or tearing. The elastic back stretches for more comfort and tear-resistance – no need to purchase a larger size just to have more fabric in the back. A gusseted, reinforced crotch provides more room to move in all directions without ripping or tearing.

- High Moisture Vapor Transmission rate keeps your people cool and comfortable.
- Well-designed garment provides worker comfort and a lower cost-in-use due to fewer rip-outs.
- Tested for several industrial chemicals.
- Fabric passes ASTM F1670 testing for blood penetration.

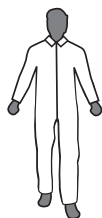
Available MicroGuard MP® Garments



Coverall with Elastic
Wrists & Open Ankles

Size: Medium - 4XL
25 per case

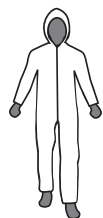
#8012



Coverall with Elastic
Wrists & Ankles

Size: Medium - 4XL
25 per case

#8013



Coverall with
Attached Hood, Elastic
Wrists & Ankles

Size: Small- 5XL
25 per case

#8015



Coverall with Attached
Hood & Boots, Elastic Wrists

Size: Medium - 4XL
25 per case

#8019



Chemical
Splash



Remediation



Dirt, Particulates,
Grime, Dust



Lab Coat, No Pockets,
Elastic Wrists

Size: Medium - 4XL
30 per case

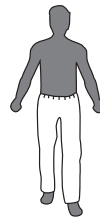
#8046



Aprons

Size: 28" x 48"
100 per case

#802448



Pants with Elastic Waist,
Open Ankles, No Pockets

Size: Medium - 4XL
50 per case

#8200



Hood With Elastic
Face, Shoulder Length

100 per case

#8002



Sleeves, 18" Length.
Elastic On Both Ends

200 per case

#8065



Shoe Covers

#8101 Large
400 per case

#8103 Large, Non-Skid Sole
#8105 XL, Non-Skid Sole

200 per case



Boot Covers

#8102 Large
#8104 Large, Non-Skid Sole
#8106 XL, Non-Skid Sole

200 per case

Physical Properties

TEST	METHOD	RESULT
Moisture Vapor Transmission (g/m ² 24h)	GB/T 12074-1991	3200
Moisture Resistance (Kpa)	FZ/T 01004-1991	18.8
Flat Abrasion	FZ/T 01001-1991	198
Breaking Strength (N/5cm)	GB/T 3923.1-1997	Radial: 70 / Woof: 50
Elongation	GB/T 3923.1-1997	Radial: 60 / Woof: 50
Tear Strength (N/5cm)	ASTM D2261-1996	Woof: 8.6
Electric Charge Density (uC/m ²)	GB/T 5455-1997	6.5
Flammability	GB/T 4744-1997	Melt-down
Dry Particle Filtration Efficiency		No Particle Penetration
Wet Particle Filtration Efficiency		No Particle Penetration



#8015

Liquid & Chemical Testing

TEST	METHOD	RESULT
Bleach 5%	ASTM F903	Pass
Hydraulic Jack Oil	ASTM F903	Pass
Isocyanate Based Paint Hardener	ASTM F903	Pass
Motor Oil	ASTM F903	Pass
Sodium Hydroxide	ASTM F903	Pass
Mineral Oil	ASTM F903	Pass
Blood	ASTM 1670	Pass



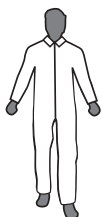
ECONOMICAL PROTECTION FOR PARTICULATES AND LIGHT LIQUID SPLASH

Economical protection against particulates, light liquid splashes and spray for non-hazardous applications.

Made from a lightweight microporous fabric designed to help keep the wearer cooler and avoid heat stress. Provides basic protection against light liquid splashes, non-hazardous dusts, varnish, resins, fiberglass and paints.

- Made of lightweight material for improved comfort
- Environmentally friendly, can be recycled after use
- Generously sized to reduce tear-outs and increase wearer comfort

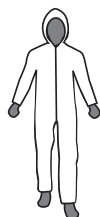
Available ValuGuard MP™ Garments



Coverall with Elastic
Wrists, Open Ankles

Size: Medium - 5XL
25 per case

#8112



Coverall with Attached Hood,
Elastic Wrists and Ankles

Size: Medium - 5XL
25 per case

#8115



Coverall with Attached Hood
& Boots, Elastic Wrists

Size: Medium - 5XL
25 per case

#8119



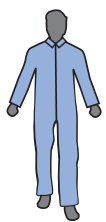
SECONDARY FR PROTECTION

Intended to be worn over primary FR apparel to protect it from grease, dirt and non-toxic liquids, in order to extend the life of the primary FR.

Passes ASTM D6413 vertical flame resistance test. Breathable fabric chars – no flame or molten drip. Possible applications include turnarounds, oil & gas, manufacturing, and industrial.

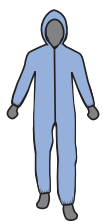
- Phosphate-based fire retardant deprives flames of their fuel source
- High moisture vapor transmission rate (MVTR) helps wearers feel cooler
- Elastic back stretches with user for more comfort and better tear resistance
- Storm flap over zipper adds an extra layer of protection
- Passes ASTM D6413 Vertical Flame Testing
- Meets NFPA 2113 requirement for section 5.1.9

Available PyroGuard FR® Garments



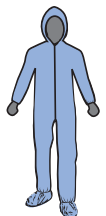
Coverall with Elastic Wrists and Open Ankles

Size: Medium - 4XL
25 per case
#9012



Coverall with Attached Hood, Elastic Wrists and Ankles

Size: Medium- 4XL
25 per case
#9015



Coverall with Attached Hood and Boots, Elastic Wrists

Size: Medium - 4XL
25 per case
#9019

Testing Information

TEST CONDUCTED	TEST METHOD	RESULTS
Grab / Tensile - Machine Direction	ASTM D5034-2001	34 lbs.
Grab / Tensile - Cross Direction	ASTM D5034-2001	26 lbs.
Vertical Flammability - Machine Direction	ASTM D6413	Pass
Vertical Flammability - Cross Direction	ASTM D6413	Pass
Electrostatic Decay Rate	ASTM D257	Pass

PyroGuard FR® is not intended to be used for primary fire protection. These garments should NOT be washed or laundered.



SECONDARY CHEMICAL AND FR PROTECTION

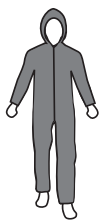
Worn over primary FR garments to protect them from a broad range of chemicals and provide flash fire protection.

PyroGuard CRFR™ garments meet NFPA 2113. Extends the life of the primary FR garment by helping to keep it clean. Self-extinguishing fabric does not melt or drip when ignited. Taped seams for added protection. Possible applications include petro-chemical environments, manufacturing, industrial and oil/gas.

- Proprietary bi-laminate fabric protects against flames and chemicals
- Elastic back stretches with user for more comfort and better tear resistance
- Storm flap over zipper adds an extra layer of protection
- Meets NFPA 2113 requirement for section 5.1.9

PyroGuard CRFR™ is not designed to be worn as a primary FR garment. It is designed for single use and it should not be washed or re-used.

Available PyroGuard CRFR™ Garments



Coverall with Attached
Respirator Hood,
Elastic Wrists, Elastic
Ankles & Taped Seams

Size: Medium - 6XL
6 per case

#9115T



Coverall with Attached
Respirator Hood,
Attached Boot, Elastic
Wrists & Taped Seams

Size: Medium - 6XL
6 per case

#9119T



Fire-Resistant and Chemical-Resistant
Apron with Long Sleeves, Elastic Wrists,
Hook and Loop Closure at neck, Ties at
Waist, & Taped Seams

Size: Large - 5XL
12 per case

#9110T



Chemical
Splash



Sparks /
Flames

Physical Properties & Chemical Testing

TEST CONDUCTED	TEST METHOD	RESULTS
Grab/Tensile - Machine Direction	ASTM D1117 / D1682	34 lbs.
Grab/Tensile - Cross Direction	ASTM D1117 / D1682	27 lbs.
Bond Strength - Machine Direction	IST 110.2	197 gms
Bond Strength - Cross Direction	IST 110.2	223 gms
Mullen Burst	ASTM D3786-87	35 psi
Resistivity - Machine Direction	IST 70.1	2.9 x10 ⁹ ohms
Resistivity - Cross Direction	IST 70.1	3.1 x10 ⁹ ohms
Vertical Flammability	ASTM D6413	Pass
Char Length MD	ASTM D6413	4.7 in.
Char Length XD	ASTM D6413	4.5 in.
After Flame	ASTM F1930	<2.0 sec.
Thermal Protective Performance - Spaced	NFPA 1971 - 97	6.8 TPP
Thermal Mannequin Test % Body burn - Machine Direction	ASTM 1903 - 3.5 sec. Over Nomex IIIA garment 6.0 oz/yd ² , Heat Flux = 2.0 CAL/cm ²	25%



CHEMICAL	PENETRATION ASTM F903 TIME TO PENETRATE (MINUTES)	PERMEATION ASTM F739 NORMALIZED BREAKTHROUGH (MINUTES)
Acetone	>60	12
Acetonitrile 90%	>60	IMB
Acetaldehyde	>60	NT
Acrylonitrile	>60	NT
Benzene	>60	NT
Carbon Disulfide	>60	9
Crude Oil	>60	9
Dichloromethane	2	IMB
#1 Diesel	>60	15
Diethylamine	>60	IMB
Dimethylformamide	<1	IMB
Ethyl Acetate	>60	16
Ethylene Dichloride	>60	NT
Ethylene Oxide	>60	NT
Gasoline	>60	NT
Hexane	>60	>480
Hexamethylene Diisocyanate	>60	15
Hydrochloric Acid	>60	NT
JP-8	>60	NT
Jet Fuel A	>60	NT
Methanol	>60	IMB
Methyl Isobutyl Ketone	>60	NT
Methyl Mercaptan	>60	NT
Monochlorobenzene	>60	NT
Nitric Acid 70%	>60	129
Nitrobenzene	3	4
n-Butyl Acetate	>60	NT
Orthodichlorobenzene, Grade F	>60	NT
Para-Dichlorobenzene	>60	NT
Pentane	>60	NT
Phenol	>60	NT
Phosphoric Acid 85%	>60	>480
Sodium Hydroxide 40%	>60	>480
Styrene	>60	<1
Sulfuric Acid 96%	45	38
Tetrachlorethylene	>60	>480
Tetrahydrofuran	<1	<1
Toluene	>60	6
Trichlorobenzene Mixture	>60	NT
Xylene	>60	NT



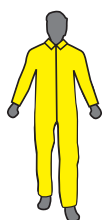
SUPERIOR CHEMICAL SPLASH PROTECTION

ChemSplash® 1 provides chemical splash barrier protection against many toxic industrial chemicals. It is designed with high Moisture Vapor Transmission Rate fabric for worker comfort. ChemSplash® 1 is constructed with a proprietary hybrid membrane fabric that helps the wearer stay cool and avoid the risk and discomfort associated with heat stress. Possible applications include manufacturing, emergency response, environmental cleanup and other situations that have the threat of chemical splash.

ChemSplash® 1 is available in both taped and serged seam styles. Taped seams improve protection versus coveralls made with serged seams, while serged seamed garments are the more economical option. The contrasting red stripe of the taped style lets you quickly distinguish this taped seam garment from coveralls made with only serged seams.

- High moisture vapor transmission rate means cooler chemical protection versus competitive chemical suits
- Proprietary hybrid membrane fabric keeps workers cool
- Proven protection for a wide range of industrial chemicals.

Available ChemSplash® 1 Garments



Coverall with Elastic Wrists
and Open Ankles

Taped Seams

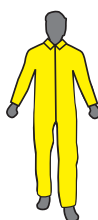
Serged Seams

Size: Small - 4XL
6 per case

Size: Small - 4XL
12 per case

#7012YT

#7012YS



Coverall with Elastic Wrists
and Ankles

Taped Seams

Size: Small - 4XL
6 per case

#7013YT



Coverall with Attached Hood,
Elastic Wrists and Ankles

Taped Seams

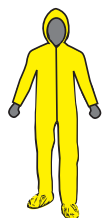
Serged Seams

Size: Small - 4XL
6 per case

Size: Small - 4XL
12 per case

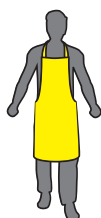
#7015YT

#7015YS



Coverall with Attached Hood and Boots, Elastic Wrists and Ankles

Taped Seams	Serged Seams
Size: Small - 4XL	Size: Small - 4XL
6 per case	12 per case
#7019YT	#7019YS



Chemical Splash Apron with Tie Strings

Size: 28" x 46"
100 per case
#702846Y



Sleeves, 18" Length, Elastic on Both Ends

Taped Seams	Serged Seams
200 per case	200 per case
#7065YT	#7065YS

Physical Properties

TEST CONDUCTED	TEST METHOD	TEST RESULT
Tensile Strength – Machine Direction	ISO 13934-1	48.3 N
Trapezoidal Tear – Cross Direction	ISO 9073-4	108.1 N
Bursting Strength – Machine Direction	ISO 13938-1	40.7 pa
Puncture – Cross Direction	EN 863	6.95 N
Antistatic	EN 1149-1	Passed (< 5x10 ⁹ ohm)
Flammability	EN 1146	Passed
Abrasion Resistance	EN 530	Class 2 (> 100 cycles)
Anti-Chemical Penetration	EN 374-3	Passed
Hydrostatic Resistance	ISO 811	226 cm
Moisture Vapor Transmission Rate	ASTM E96	> 3000 gm/m ² /24hr

Agent Testing

AGENT	TEST METHOD	PENETRATION	REPELLENCY
Heptane 99%	ISO 6530 / EN 368	Class 3	Class 1
Dichloromethane 99.9%	ISO 6530 / EN 368	Class 3	Class 1
Toluene 99.9%	ISO 6530 / EN 368	Class 3	Class 1
Isopropanol 99.5%	ISO 6530 / EN 368	Class 3	Class 2
Sodium Hydroxide 50%	ISO 6530 / EN 368	Class 3	Class 3
Hydrochloric Acid 36-37%	ISO 6530 / EN 368	Class 3	Class 3
Hydrofluoric Acid 48-50%	ISO 6530 / EN 368	Class 3	Class 3
JP8 Jet Fuel	ISO 6530 / EN 368	Class 3	Class 2
Sulphuric Acid 96%	ISO 6530 / EN 368	Class 3	Class 3
Synthetic Blood	ASTM F1670		Pass



ENHANCED CHEMICAL SPLASH PROTECTION

Protection against a broad range of acids and caustic chemicals.

Lighter and more pliable proprietary fabric versus competitive products provides worker comfort. Taped seams improve protection versus coverall made with serged seams. Possible applications include emergency response, chemical loading, petrochemical environments and more.

- Storm flap over zipper with pressure sensitive tape adds an extra layer of protection
- Light, pliable fabric for more comfortable wear
- Elastic back stretches with user for more comfort and better tear resistance
- Attached thumb loops help keep sleeves in place to prevent skin exposure
- Bright blue taped seams add an extra layer of protection against liquid penetration

Available ChemSplash® 2 Garments



Coverall with Elastic
Wrists, Open Ankles.
Storm Flap over
Zipper with Pressure
Sensitive Tape.
Taped Seams.

Size: Medium - 4XL
6 per case
#7312GT



Coverall with
Attached Respirator
Hood, Elastic Wrists.
Storm Flap over Zipper
with Pressure Sensitive
Tape. Taped Seams.

Size: Medium - 4XL
6 per case
#7315GT



Coverall with Attached
Respirator Hood and
Boots, Elastic Wrists.
Storm Flap over Zipper
with Pressure Sensitive
Tape. Taped Seams.

Size: Medium - 4XL
6 per case
#7319GT



Infectious
Disease



Chemical
Splash



Remediation

Agent Testing

CHEMICAL ASTM F1001	PENETRATION ASTM F903	PERMEATION NORMALIZED BREAKTHROUGH (MIN.) ASTM F739	RATE ($\mu\text{g}/\text{cm}^2$ MIN)
ACETONE	PASS	21	1.1
ACETONITRILE	PASS	32	1.8
AMMONIA	N/T	>480	ND
CARBON DISULFIDE	PASS	IMMEDIATE	50
CHLORINE	N/T	>480	ND
DICHLOROMETHANE	PASS	IMMEDIATE	>50
DIMETHYL FORMAMIDE	PASS	>120	1.34
ETHYLENE OXIDE	N/T	>480	ND
DIETHYLAMINE	PASS	18	>50
N,N-DIMETHYLFORMAMID	PASS	109	0.4
ETHYL ACETATE	PASS	18	2
N-HEXANE	PASS	>480	ND
METHYL CHLORIDE	N/T	>480	ND
METHANOL	PASS	>480	ND
NITROBENZENE	PASS	98	4.2
SODIUM HYDROXIDE (50%)	PASS	>480	ND
SULFURIC ACID (98%)	PASS	>480	ND
TETRACHLOROETHYLENE	PASS	30	9.5
TETRAHYDROFURAN	PASS	IMMEDIATE	>50
TOLUENE	PASS	4	43

Physical Properties

TEST CONDUCTED	TEST METHOD	RESULTS
Weight, oz/y ²	ASTM D-3776	2.9 oz/y ²
Tensile Strength – Machine Direction	ASTM D-5034	51.2 lbs
Tensile Strength – Cross Direction	ASTM D-5034	36.2 lbs
Tear Strength, Trapezoid Machine Direction	ASTM D-5733	23.3 lbs
Tear Strength, Trapezoid Cross Direction	ASTM D-5733	15.4 lbs
Ball Burst Strength	ASTM D-751	52 lbs

Additional Agent Testing

CHEMSPLASH® 2 ALSO PROTECTS AGAINST THE FOLLOWING AGENTS	TEST METHOD
Bloodborne Pathogens	ASTM F1671-13
Synthetic Blood	ASTM F1670-14
JP-8 Jet Fuel	ASTM F903-10

ISO 6530 : 2005 Protective clothing - Protection against liquid chemicals - Test method for resistance of materials to penetration by liquids

TEST LIQUID & CONCENTRATION	VOLUME OF TEST LIQUID (cm ³)	FLOW RATE cm ³ /s	RESULTS					
			PENETRATION INDEX / _p		REPELLENCY INDEX / _R		ABSORPTION INDEX / _A	
			length	width	length	width	length	width
N-Heptane 99%	10±0.5	1.0	0.0%	0.0%	95.2%	96.2%	4.8%	3.8%
Isopropanol 99.5%	10±0.5	1.0	0.0%	0.0%	95.6%	95.4%	4.4%	4.6%



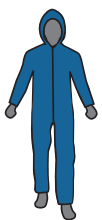
BLOOD-BORNE PATHOGEN AND SPLASH PROTECTION

Protective apparel for blood, blood-borne pathogens and body fluids.

ViroGuard® is comfortable to wear and offers breathability through enhanced moisture vapor transmission while holding out particulates and many dangerous chemicals. Durable finish provides enhanced abrasion resistance to further protect the worker.

- Fabric passes ASTM F1670 and F1671 tests for protection against blood and blood-borne pathogens
- Roomy, seamless shoulder area resists tears and provides more protection in key exposure areas
- Wider, gusseted crotch gives wearer more room to move in all directions without ripping fabric
- Elastic back stretches with user for more comfort and better tear resistance
- Blue color makes stains and splashes on fabric less conspicuous

Available ViroGuard® Garments



Blue Coverall with Attached Hood, Elastic Wrists & Ankles, Elastic Back

Size: Small - 5XL
25 per case
#2407



Blue Coverall with Attached Hood & Boots, Elastic Wrists & Elastic Back

Size: Small - 5XL
25 per case
#2404



Infectious
Disease



Chemical
Splash



Remediation



Dirt, Particulates,
Grime, Dust

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
Flammability	CPSC 1610	Class 1
Hydrohead	AATCC-127	255.2 cm

Chemical Testing

AGENT	TEST METHOD	TEST TIME	TEST 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

Agent Testing

BARRIER PROPERTIES	TEST METHOD	RESULTS
Blood Penetration	ASTM F1670	PASS
Blood-borne Pathogens	ASTM F1671	PASS

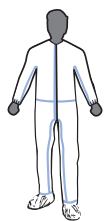


SUPERIOR HIGH CONSEQUENCE INFECTIOUS DISEASE PROTECTION

ViroGuard® 2 is designed to protect healthcare workers that 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 and blood-borne pathogens. Six additional features added to the suit based upon healthcare workers input to aid in the donning and doffing process.

Available ViroGuard® 2 Garments



Coverall with Boots Only. 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.

Size: Medium - 4X
25 per case

#W2501



Coverall with 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.

Size: Medium - 4X
25 per case

#W2502



Hood with Elastic Face, with Hook & Loop Closure, Taped Seams

100 per case

#W2561



Boot Cover with Elastic Top & Ankle. Skid Resistant Sole. Taped Seams.

Height: 17"
50 pairs per case

#W2505-L

Height: 23"
50 pairs per case

#W2506-XL

#W2501



Agent Testing ViroGuard®

AGENT	TEST METHOD	COMPONENT	RESULT
Blood	ASTM F1670	Fabric	Pass
Blood-Borne Pathogens	ASTM F1671	Fabric	Pass

Agent Testing ViroGuard® 2

AGENT	TEST METHOD	COMPONENT	RESULT
Blood	ASTM F1670	Fabric	Pass
Blood-Borne Pathogens	ASTM F1671	Fabric	Pass
Blood	ASTM F1670	Seams	Pass
Blood-Borne Pathogens	ASTM F1671	Seams	Pass

Features developed with healthcare workers' input



Thumb & Finger Loops

Prevents sleeves from riding up.



Double-sided tape around the wrists

Helps keep gloves in place.



Large zipper pull with red fabric pull tab

Easier to see and use.



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.



ENVIROMAT®

Enviromat® contamination control is a multi-layered and numbered adhesive pad that removes particulates from the soles of footwear prior to entry into a clean or controlled environment. Once the top layer is soiled, it can be easily removed to expose the next clean layer.



Pictured: White Mat



Pictured: Clear Mat



Pictured: Blue Mat

STYLE	DESCRIPTION
EM1836R30B	Enviromat®, Blue, 18" x 36", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM1836R30C	Enviromat®, Clear, 18" x 36", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM2430R30B	Enviromat®, Blue, 24" x 30", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM2430R30W	Enviromat®, White, 24" x 30", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM2436R30B	Enviromat®, Blue, 24" x 36", 30 sheets/pad, 8 pads/carton, 10 cartons/case
EM2436R30W	Enviromat®, White, 24" x 36", White, 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM2645R30W	Enviromat®, White, 26" x 45", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM3636R30	Enviromat®, Clear, 36" x 36", 30 sheets/pad, 4 pads/carton, 10 cartons/case
EM3645R30B	Enviromat®, Blue, 36" x 45", Blue, 30 sheets/pad, 4 pads/carton, 10 cartons/case

CARPETGUARD™

CarpetGuard™ easily rolls out onto carpet and stays in place, offering protection for up to 45 days. Made of a tough polyethylene material, CarpetGuard™ is an excellent product to protect stairways, hallways, entrances, and exits, or any high-traffic area in homes and offices.

STYLE	DESCRIPTION
EMCG324200	Clear CarpetGuard™ 24" x 200' 1 Roll
EMCG330200	Clear CarpetGuard™ 30" x 200' 1 Roll
EMCG336200	Clear CarpetGuard™ 36" x 200' 1 Roll
EMCG336500	Clear CarpetGuard™ 36" x 500' 1 Roll


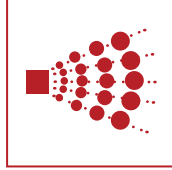

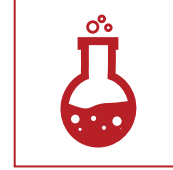















Made in the USA

EMCG324200USA	Clear CarpetGuard™ 24" x 200'
EMCG336200USA	Clear CarpetGuard™ 36" x 200'
EMCG336500USA	Clear CarpetGuard™ 36" x 500'



CarpetGuard™

DON'T KNOW WHAT PROTECTION YOU NEED?

					
GOOD	Polypropylene 	SMS 	ViroGuard® 	ViroGuard® 	
BETTER	SMS 	ValuGuard MP™ MicroGuard MP® 	ViroGuard® 	ChemSplash® 1 	PyroGuard FR® 
BEST	MicroGuard MP® Body Filter 95+® 	Body Filter 95+® 	ViroGuard® 2 	ChemSplash® 2 	PyroGuard CRFR™ 

Try our online Tool: Suit Yourself™ Simply select the agent you're trying to be protected from

Visit: Int-Enviroguard.com/Suit-Yourself to try for yourself!



INTERNATIONAL **ENVIRO GUARD**

 [INT-ENVIROGUARD.COM](https://www.int-enviroguard.com)

 **800.345.5972**