



ONESuit® Shield Hazmat Protective Suit

Article No: 51159SG338

Consistent with the ONESuit® brand, ONESuit Shield was engineered to meet the needs of hazmat professionals seeking the highest levels of chemical protection.

ONESuit Shield combines uncompromised protection with exceptional comfort in a Level B configuration. Certified to CBRN First Response and Chemical Splash standards, this lightweight and durable garment provides enhanced mobility for performing the most demanding tasks.

The unique facemask interface provides a vapor tight configuration for maximum protection during CBRN or splash exposure.



FEATURES

- Maximum protection against chemical/biological agents
- Dual Certified
 - NFPA 1994 Class 2
 - NFPA 1992
- Unique face mask interface provides vapor tight configuration
- Lightweight design for user comfort
- Coretech Logo 134Saint-Gobain Coretech® barrier material technology offers exceptional durability and flexibility
- Twice the lifecycle of other suits
- 10-year shelf life
- Available with ONEGlove® Hazmat
- Ultra-compact for convenient, space-saving storage

SAINT-GOBAIN PERFORMANCE PLASTICS

For more than four decades, Saint-Gobain Performance Plastics and its family of companies — including CHEMFAB, makers of the Challenge® line of technical fabrics — have supplied the world with innovative, high-performance polymer products for the most demanding applications.

Saint-Gobain is one of the world's top 100 industrial corporations, with a tradition of excellence dating back more than 300 years.

The company has a strong and ongoing commitment to quality, leadership and customer service in the five major industrial sectors in which it operates: Construction Products, High-Performance Materials, Flat Glass, Packaging and Building Distribution.

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ONESuit® Shield Sizes and Recommended Guidelines

ONESuit® Shield Product Code	Suit Size	Height (In.)	Weight (lbs.)	Standard Glove Size	Recommended Boot Size
1S-B-SM-OG 1S-B-SM-TG	Small	60-64	100-140	8 (Medium) 9/M (Medium)	6-9
1S-B-MD-OG 1S-B-MD-TG	Medium	64-68	130-180	9 (Large) 10/L (Large)	8-13
1S-B-LG-OG 1S-B-LG-TG	Large	68-72	150-210	9 (Large) 10/L (Large)	8-13
1S-B-XL-OG 1S-B-XL-TG	X-Large	71-75	180-230	10 (X-Large) 11/XL (X-Large)	9-14
1S-B-2X-OG 1S-B-2X-TG	XX-Large	74-77	210-260	10 (X-Large) 11/XL (X-Large)	10-15
1S-B-3X-OG 1S-B-3X-TG	XXX-Large	76-79	240-290	11 (XX-Large) 11/XL (X-Large)	10-15

OG = Suit delivered with ONEGlove

TG = Suit delivered with Two Layer Glove System

Physical Properties and Garment Test – NFPA 1994 & 1992

PROPERTY	METHOD	NFPA REQUIREMENT	RESULTS
BURST STRENGTH – GARMENT MATERIAL	ASTM D751	> 156 N	1,209
SEAM BREAKING STRENGTH – GARMENT	ASTM D751	> 1.31 kN/m	8.406
CLOSURE BREAKING STRENGTH	ASTM D751	> 1.31 kN/m	2.372
PUNCTURE PROPAGATION TEAR RESISTANCE – GARMENT MATERIAL	ASTM D2582	> 31 N	129

Chemical Test Data – NFPA 1994 Class 2

CHEMICAL / AGENT	METHOD	NFPA 1994 REQUIREMENT	GARMENT MATERIAL FLEX/ABRADED	GARMENT SEAM
DISTILLED MUSTARD (HD)	ASTM F739	≤ 4.0 µg/cm ²	< .001	< .001
SOMAN (GD)	ASTM F739	≤ 1.25 µg/cm ²	< .001	< .001
ACROLEIN	ASTM F739	≤ 6.0 µg/cm ²	< 1	< 1
ACRYLONITRILE	ASTM F739	≤ 6.0 µg/cm ²	< 1	< 1
AMMONIA	ASTM F739	≤ 6.0 µg/cm ²	< 1	< 1
CHLORINE	ASTM F739	≤ 6.0 µg/cm ²	< 1	< 1
DIMETHYL SULFATE	ASTM F739	≤ 6.0 µg/cm ²	< 1	< 1

Chemical Test Data – NFPA 1992 (2005 Edition)

CHEMICAL / AGENT	METHOD	NFPA 1992 REQUIREMENT (MINUTES)	GARMENT MATERIAL FLEX/ABRADED
ACETONE	ASTM F739	> 60	PASS
DIMETHYLFORMAMIDE	ASTM F739	> 60	PASS
ETHYL ACETATE	ASTM F739	> 60	PASS
NITROBENZENE	ASTM F739	> 60	PASS
SODIUM HYDROXIDE	ASTM F739	> 60	PASS
SULFURIC ACID	ASTM F739	> 60	PASS
TETRAHYDROFURAN	ASTM F739	> 60	PASS

ONESuit® Shield is currently certified to:



Certified Model – NFPA 1994 Class 2 (2007 ed.)
Certified Model – NFPA 1992 (2005 ed.)

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