



EXOSKIN[®]
SUITS

LOW-BURDEN, HIGH PERFORMANCE
CBRN SUITS

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PRODUCT OVERVIEW

Avon Protection's EXOSKIN-S1 and EXOSKIN-S2 CBRN suits provide improved protection against chemical warfare agents enabling users to operate in a CBRN environment for up to 24 hours.

Leveraging knowledge of soldier system integration, Avon Protection's EXOSKIN suit options are low-burden and seamlessly integrate with essential CBRN protective equipment including respirators, boots, and gloves.

Made from a low noise emitting outer and an activated carbon inner, EXOSKIN suits are designed to meet military and first responders requirements.

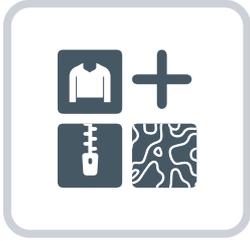
1/4 Zip Jacket

Full Zip Jacket



P/N	Item
607734	EXOSKIN-S1 1/4 Zip Jacket & Trousers
607735	EXOSKIN-S1 Full Zip Jacket & Trousers
607736	EXOSKIN-S2 1/4 Zip Jacket & Trousers
607737	EXOSKIN-S2 Full Zip Jacket & Trousers

FEATURES AND BENEFITS



Customizable

- Jacket zip available in different configurations and sizes to ensure suitability for all mission types and increased protection.
- Closed end ¼ zip or full zip available with hook & loop fastening for improved integration with body armor and added level of security for the user.
- Multiple activated carbon fabric (ACF) inner options are available to configure the suit to the protection level of your choice.



Low-Burden

- 30% lighter than conventional CBRN systems (average Large suit <2kg or 4.4lbs), reducing physiological burden on the user.
- Integrated hood with cowl front offers unrestricted movement when a respirator is worn, enabling the user to complete their mission effectively and efficiently.



User Focused

- Reinforced elbow and knee pad pockets covering areas of abrasion.
- Trousers braces allow for ease of donning or doffing and adjustment to each individual user's height. Each leg has a bellowed thigh pocket enabling easy access with hook & loop fastening flaps.
- Waist and hem adjusters for conformed fit and to adapt fit for multiple size ranges and body shapes.



Improved Protection

- Integrated hood with double elasticated aperture ensures a protective seal around the respirator, maximizing the protection factor of the suit without restricting movement.
- Features hook and loop adjustable tabs on the lower legs, a thumb loop and inner leg gaiter with stirrup to prevent ingress when worn.
- Seamless integration with Avon Protection's respirators and the EXOSKIN range of boots and gloves.



Advanced Materials

- Multi-threat protection against vapor, liquid and particulate CWAs allowing the user to operate in different CBRN environments safely.
- Offers 24 hour protection against traditional CWAs, allowing the user longer time on target.
- Flame retardant – Flame Retardancy Index 3 – Standard (EN 14116).

EXOSKIN-S1 CBRN SUIT

EXOSKIN-S1 provides the lightest, lowest burden PPE for CBRN protection. The lightweight, highly breathable, and comfortable suit is designed for users to operate at maximum efficiency, even in hot, humid environments.

Weight: 1.8kg / 3.9lbs

EXOSKIN-S2 CBRN SUIT

EXOSKIN-S2 offers the users an increased level of protection without compromising on comfort. The slightly heavier ACF offers enhanced protection levels and includes an additional aerosol barrier to specifically target contamination in the 1-3 micron range. The EXOSKIN-S2 is the optimal solution when there is an increased risk of airborne particulates or droplets.

Weight: 2kg / 4.4lbs

Shown below are the standard range of patterns and colors available, but customizable suit patterns and colors are also available, subject to licensing and availability.



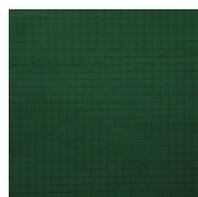
UK MTP



Black



Mono Navy



Dark Olive



Dark Green

TECHNICAL DATA

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EXOSKIN-S1 & EXOSKIN-S2: Outer Fabric			
Flame Retardancy		Index 3 - Standard (EN 14116)	
Tensile Strength		750 N Warp, 360 N Weft - Standard (BS EN ISO 13934-1:1999)	
Tear Strength		45 N Warp, 45 N Weft - Standard (BS EN ISO 13937-3:2000)	
Abrasion Resistance		16,000 revs at (9kPa) - Standard (BS EN ISO 12947-2:2016)	
EXOSKIN Suit Variations			
		EXOSKIN-S1 Lightest weight, lowest burden Offers lowest level of protection	EXOSKIN-S2 Higher level of protection Heavier ACF & enhanced aerosol protection
Permeation Resistance Swatch Testing	Laid droplet, diffusive flow GD: 10g/m ² , 24 hours	<0.12 µg/cm ²	<0.04 µg/cm ²
	Laid droplet, diffusive flow HD: 10g/m ² , 24 hours	<0.15 µg/cm ² @5% RH	<1.710 µg/cm ² @80% RH
	Vapor test, HD: 11 mg/m ³	22 mg.min/m ³	<4.7 mg.min/m ³
	Aerosol protection: penetration % 1-3µm particles	35%	5.2%
Breathability	Water Vapour Resistance (RET)	2.44 m ² Pa/W	4.15 m ² Pa/W
	Thermal Resistance (RCT)	0.007 m ² K/W	0.0066 m ² K/W
	Air Permeability	34.3mm/sec at 100Pa	26.7mm/sec at 100Pa
MIST Test			
Passed in accordance with AEP-38 with Avon Protection respirators and EXOSKIN boots and gloves			

SIZE GUIDE

Size*	Height (cm)	Height (In)	Chest (cm)	Chest (In)	Waist (cm)	Waist (In)	Inside Leg (cm)	Inside Leg (In)
Small/Short	165 - 173	65 - 68	84 - 92	33 - 36	80 - 88	31 - 34	74	29
Medium/Short			92 - 100	36 - 39	88 - 96	34 - 37		
Large/Short			100 - 108	39 - 42	96 - 104	37 - 41		
X-Large/Short			108 - 116	42 - 46	104 - 112	41 - 44		
2XL/Short			116 - 124	46 - 49	112 - 120	44 - 47		
3XL/Short			124 - 132	49 - 52	120 - 128	47 - 50		
Small/Regular	173 - 180	68 - 71	84 - 92	33 - 36	80 - 88	31 - 34	79	31
Medium/Regular			92 - 100	36 - 39	88 - 96	34 - 37		
Large/Regular			100 - 108	39 - 42	96 - 104	37 - 41		
X-Large/Regular			108 - 116	42 - 46	104 - 112	41 - 44		
2XL/Regular			116 - 124	46 - 49	112 - 120	44 - 47		
3XL/Regular			124-132	49 - 52	120 - 128	47 - 50		
Small/Long	180 - 188	71 - 74	84 - 92	33 - 36	80 - 88	31 - 34	84	33
Medium/Long			92 - 100	36 - 39	88 - 96	34 - 37		
Large/Long			100 - 108	39 - 42	96 - 104	37 - 41		
X-Large/Long			108 - 116	42 - 46	104 - 112	41 - 44		
2XL/Long			116 - 124	46 - 49	112 - 120	44 - 47		
3XL/Long			124 - 132	49 - 52	120 - 128	47 - 50		

* Further sizing is available outside of our standard size guide, if required. Please contact the customer service team for additional information.

AVONPLUS⁺
PROTECTION BEYOND
THE PRODUCT

AVONPLUS is Avon Protection's suite of product training and service programs to ensure you remain protected, confident, and compliant.