



**EXOSKIN®-S1**  
LOW-BURDEN CBRN SUIT

# EXOSKIN<sup>®</sup>-S1

LOW-BURDEN CBRN SUIT

## PRODUCT OVERVIEW

Avon Protection's new EXOSKIN-S1 CBRN suit provides improved protection against chemical warfare agents enabling users to operate in a CBRN environment for up to 24 hours.

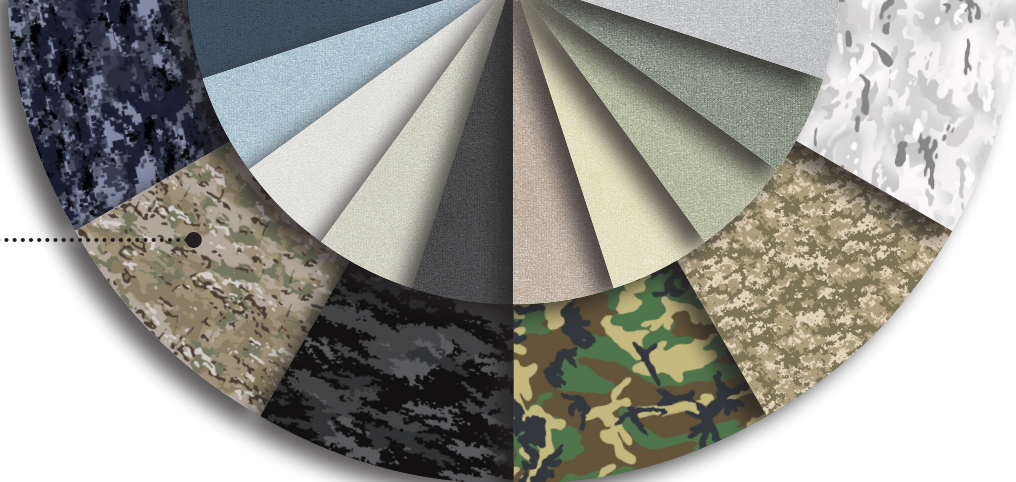
Leveraging knowledge of soldier system integration, Avon Protection's EXOSKIN-S1 is a low-burden suit that seamlessly integrates with essential CBRN protective equipment including respirators, boots, and gloves.

Made from a cottonpoly outer and an activated carbon inner the EXOSKIN-S1's designed to meet military and first responders requirements.



EXOSKIN-S1 Item	Part Number
Jacket ¼ Zip	607734
Jacket Full Zip	607735
Trousers	607736

A range of patterns and colors are customizable and are subject to licensing and availability.



## FEATURES AND BENEFITS



### Customizable

- Avon Protection's EXOSKIN-S1 comes in two variants, a jacket and trouser ensemble.
- Jacket zip available in different configurations and sizes to ensure suitability for all mission types and increased protection factor.
- 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.
- EXOSKIN-S1 offers multiple patterns and color design formulations to help users avoid detection and attack in hostile environments.



### Low Burden

- 30% lighter than conventional CBRN systems (average Large suit <1.8kg), 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

- ¼ zip increase comfort when wearing body armor.
- 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 bellows thigh pocket enabling easy access with hook & loop fastening flaps.
- Roll down hood with hook & loop tab to improve comfort and minimize the risk of snag hazards at reduced MOPP levels.
- Waist and hem adjusters for conformed fit and to adapt fit for multiple size ranges and body shapes.



### Improved Protection Factor

- Provides protection against CWAs and tested to protect for a continuous period of up to 24 hours allowing the user to safely carry on with their mission.
- 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 EXOSKIN range of boots and gloves.



### Advanced Materials

- Multi-threat protection against vapor, liquid and particulate CWAs allowing the user to enter different CBRN environments safely.
- Offers 24 hours protection against traditional CWAs allowing the user longer time on target.
- Made from a cottonpoly outer and an activated carbon inner making the suit feel like second skin for enhanced mobility.
- Flame retardant – Flame Retardancy Index 3 – Standard (BS EN 533:1997).

## TECHNICAL DATA

TECHNICAL DATA	
<b>Outer Fabric</b>	
Flame retardancy	Technical Data Available Upon Request
Tensile strength	
Tear strength	
Abrasion resistance	
<b>Carbon Liner</b>	
Total weight	Technical Data Available Upon Request
Tensile strength	
Tear strength	
Abrasion resistance	
<b>Permeation Resistance Swatch Testing</b>	
Laid droplet, diffusive flow GD and HD 10g/m <sup>2</sup> (5% RH, 30°C, 24 hours, 1-µl drops)	Technical Data Available Upon Request
<b>Breathability</b>	
Water vapor resistance (Ret)	Technical Data Available Upon Request
Thermal resistance (Rct)	
Air permeability	
MIST test	

## 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		

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