

EXOSKIN-B1™

CBRN BOOTS

With an extensive knowledge of Military and First Responder CBRN requirements, Avon Protection's CBRN Overboots have been designed to meet the unique requirements of the modern warfighter and tactical operator.

Recognizing traditional CBRN Overboots limit operational capability, Avon Protection's design has been optimized to improve mission flexibility without compromising on the protection.

PRODUCT HIGHLIGHTS

- Ruggedized straps
- Optimized tactical grip
- Maximum protection against CBRN and TIC
- Quick donning and doffing
- Proven rubber technology

SUPERIOR RUGGEDIZED DESIGN

Designed for most demanding of environments, the Avon Protection CBRN Overboots provide improved durability and agility in the field.

- Ruggedized quick release straps
- Tactical grip to improve manoeuvrability
- Integrates with protective suit ensembles including JSLIST and MkIVA
- Easy to decontaminate
- Quick donning and doffing



OPTIMUM FIT

- Ambidextrous

WEARER PROTECTION

- High protection against Chemical Warfare Agent (CWA) and Toxic Industrial Chemical (TIC)
- Impermeable to biological agents



FUNCTIONALITY

| Slip resistance | |
|-------------------------------------|----------------------|
| Forward Heel Slip ≥ 0.28 | EN ISO 20345 (5.3.4) |
| Forward Flat Slip ≥ 0.32 | EN ISO 20345 (5.3.4) |
| Sole abrasion resistance | |
| $\leq 350 \text{ mm}^3$ volume loss | EN ISO 20345 (5.8.3) |

QUALITY ASSURANCE

All products are 100% inspected and tested to ensure quality and performance.

| Leak resistance | |
|-----------------|-----------------------|
| 100% leak tight | BS EN ISO 20344 (5.7) |

STORAGE

| Recommended Storage Conditions | |
|---|--|
| 20°C +/- 5°C | |
| Shelf Life | |
| 15 years when stored within recommendations | |
| Storage Humidity range | |
| 0-100% RH | |





| Sizes and Weights | | | | |
|-------------------|-----------|-----------|-----------|-------------------|
| Size | UK | US | EC | Weight (per boot) |
| M | 5.5 – 8 | 6.5 – 9 | 38.5 – 43 | 497g |
| L | 8.5 – 11 | 9.5 – 12 | 43.5 – 46 | 584g |
| XL | 11.5 – 14 | 12.5 – 15 | 46.5 – 50 | 640g |

| Performance Summary | | |
|--|--|--------------------------------------|
| Property | Test Method and Performance | |
| CWA resistance (Chemical Warfare Agent) Tested against HD, GB, TGD & VX | TOP 8-2-501 | < 2µg/cm ² for > 24 hours |
| TIC resistance (Toxic Industrial Chemical) | Protection against a wide range of TICs, details available on request. | |
| Biological resistance | Impermeable to biological warfare agents. | |

| Physical Properties | | |
|---------------------------|-----------------------------|-----------------------------|
| Property | Test Method and Performance | |
| Hardness | ASTM D2240 | 58 |
| Elongation at break | ASTM D412 | > 452% |
| Tear strength | ASTM D624 | > 40 N/mm |
| Tensile strength | ASTM D412 | > 11MPa |
| Modulus @ 100% elongation | BS EN ISO 20344: Clause 6.4 | 2.0 Mpa |
| Compression set | ASTM D395 method B | 15% after 70°C for 22 hours |
| Cold resistance | ASTM D1053 | Pass |
| Cut resistance | EN ISO 20347 (6.2.7.3) | Cut index > 2.5 |
| Puncture resistance | ISO 13996 | >15N |

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