

CBRN OVERBOOTS



workMaster™
by RESPIREX

AMBIDEXTROUS OVERBOOTS

A chemically protective, anti-static overboot with an ambidextrous quick-don design, specifically engineered to fit over standard combat boots. Tested against a broad range of hazardous chemicals and chemical warfare agents, the boot design can be fastened single-handedly in less than five seconds.

Workmaster™ boots are trusted around the world by industry and the emergency services to protect the wearer against hazardous and aggressive chemicals, with chemical permeation data available for 100+ common chemicals (see back page).



CERTIFICATION

- **EN 13832-3: 2018 A,K,O,P,Q,R,T**
Chemical Protective Footwear
- **EN ISO 20347:2012 OB SRA A FO**
Occupational Footwear
- **PPE Regulation (EU) 2016/425**
Personal Protective Equipment

SPECIFICATIONS



Chemically resistant overboot certified to **EN 13832-3:2018** (footwear protecting against chemicals)



Fuel and oil resistant upper and sole ensuring the working life of the boot won't be compromised if used in oily environments



OB Category Occupational Footwear
Complies with the requirements for occupational footwear in EN ISO 20347



Antistatic - Electrical resistance meets the requirements of EN ISO 20345 A (0.1MΩ to 1,000MΩ)



Slip-resistant outsole (SRA)

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Extensive CWA Testing

Greater than 24 hours permeation resistance against HD Mustard, VX & GD chemical warfare agents (see page 3) and excellent resistance to decontamination solutions

Chemically Resistant

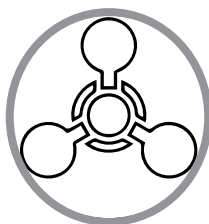
Highly chemically resistant Hazmax™ FPA compound provides unrivalled protection against aggressive chemicals like acids, including >32 hours against concentrated (96%) Sulphuric Acid

Slip resistant, non-clogging sole

Rear Opening Ambidextrous Design ensures the boot is quick and easy to fit and remove and allows the boot to be worn on either the right or left foot to simplify fitment over combat boots

Kick-off lug

For easier removal of the boots after they have been unfastened.



OPTIONS



HAZMAX CBRN S5 BOOT

A chemical safety boot designed for enhanced protection against chemical warfare agents

CARE

- Machine washable at up to 40°C
- Shelf life of over 10 years
- All Workmaster boots are REACH compliant, PFAS free and CE marked on the shaft with date and year of manufacture

Specifications, configurations and colours are subject to change without notice.



AMBIDEXTROUS OVERBOOTS

Warfare Agent Testing

WARFARE AGENT	CODE	CAS NUMBER	TEST METHOD	BREAKTHROUGH TIME
Cyanogen Chloride	CK	506-77-4	TOP 8-2-501	>6 hours
HD Mustard	HD	505-60-2	TOP 8-2-501	>24 hours
Hydrogen Cyanide	AC	74-90-8	TOP 8-2-501	>8 hours
Lewisite	L	40334-70-1	Finabel 0.7.c	>24 hours
Novachok A 234			TOP 8-2-501	>24 hours
Phosgene	CG	75-44-5	TOP 8-2-501	>8 hours
Sarin	GB	107-44-8	TOP 8-2-501	>24 hours
Soman	GD	96-64-0	TOP 8-2-501	>24 hours
Tabun	GA	77-81-6	Finabel 0.7.c	>24 hours
THD	THD		TOP 8-2-501	>24 hours
VX	VX	50782-69-9	TOP 8-2-501	>24 hours

Sizing

Our CBRN Overboots are available in seven sizes to ensure a secure fit and complete coverage over military issue combat boots

	Part No. (Olive Green)	Part No. (Combat-Black)	US	EN	UK	Height
X-Small	B01391/OG	B01391/BLK	3 - 4½	34 - 35	2 - 3½	262 mm
Small	B01392/OG	B01392/BLK	5 - 6½	37 - 38	4 - 5½	266 mm
Medium	B01393/OG	B01393/BLK	7 - 8½	39 - 41	6 - 7½	270 mm
Large	B01394/OG	B01394/BLK	9 - 10½	42 - 43	8 - 9	275 mm
X-Large	B01395/OG	B01395/BLK	11 - 12	44 - 45	10 - 11	282 mm
XX-Large	B01396/OG	B01396/BLK	13 - 14	46 - 47	12 - 13	290 mm
XXX-Large	B01397/OG	B01397/BLK	15 - 16	48 - 50	14 - 15	298 mm

NATO Stock Numbers (Combat Black)

XS	8430-99-472-1024	L	8430-99-969-4195	XXXL	8430-99752-8664
S	8430-99-176-1246	XL	8430-99-894-9283		
M	8430-99-752-8650	XXL	8430-99-444-9493		

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CHEMICAL PERMEATION DATA



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CHEMICAL	CAS NO.	LETTER	METHOD	BREAKTHROUGH
Acetic acid (Glacial)	64-19-7	N	EN 16523	> 12 Hours
Acetone	67-64-1	B	EN374-3	> 2 Hours
Acetone Cyanohydrin	75-86-5		EN374-3	> 8 Hours
Acetonitrile	75-05-08	C	EN374-3	> 6 Hours
Acrylic Acid	79-10-7		EN374-3	> 8 Hours
Acrylonitrile	107-13-1		EN374-3	> 2 Hours
Ammonia 33%	1336-21-6	O	EN 16523	> 32 Hours
Ammonia Gas	7664-41-7		EN374-3	> 8 Hours
Ammonium Hydroxide Solution 5% free NH ₃	1336-21-6		EN 16523	> 32 Hours
Ammonium Pentadecafluoro-octanoate (30% in water)	3825-26-1		EN374-3	> 8 Hours
Aniline	62-53-3		EN374-3	> 8 Hours
Anti-knock(Tetraethyl lead 60% Dibromoethane 30%/ Dichloroethane 10% TEL-CB)	78-00-2 / 106-03-4 / 107-06-2		EN374-3	> 8 Hours
Aqueous Phenol 85%	108-95-2		EN374-3	> 8 Hours
Arsenic Acid	7778-39-4		EN374-3	> 8 Hours
Benzene	71-43-2		EN374-3	> 4 Hours
Benzyl Chloride	100-44-7		EN374-3	> 8 Hours
Bromine	7726-95-6		EN374-3	> 7 Hours
Buta-1,3diene Gas	106-99-0		EN374-3	> 3 Hours
Butyl Acetate	123-86-4		EN374-3	> 6 Hours
Cable oil			EN374-3	> 8 Hours
Carbazole	86-74-8		EN374-3	> 8 Hours
Carbon Disulphide	75-15-0	E	EN374-3	> 1 Hour
Chlorine Gas	7782-50-5		EN374-3	> 3 Hours
Chloroacetic Acid 85%	79-11-8		EN 16523	> 32 Hours
Chromic Acid	1333-82-0		EN374-3	> 8 Hours
Cyclohexylamine	108-91-8		EN374-3	> 8 Hours
Dichloromethane	75-09-02	D	EN374-3	> 1 Hour
Diethylamine	109-89-7	G	EN374-3	> 2 Hours
Diethylene Glycol dimethylether	111-46-6		EN374-3	> 8 Hours
Dimethyl Formamide	68-12-2		EN374-3	> 5 Hours
Epichlorohydrin	106-89-8		EN374-3	> 7 Hours
Ethanol (Ethyl Alcohol)	64-17-5		EN374-3	> 8 Hours
Ethyl Acetate	141-78-6	I	EN374-3	> 4 Hours
Ethylene Glycol	107-21-1		EN374-3	> 8 Hours
Ethylene Dichloride	107-06-2		EN374-3	> 8 Hours
Ethylene Oxide	75-21-8		EN374-3	> 2 Hours
Ethylenediamine tetra-acetic acid tetrasodium salt (EDTA) 5%	64-02-8		EN374-3	> 8 Hours
Formaldehyde 37%	79-11-8	T	EN374-3	> 8 Hours
Formic Acid 65%	64-18-6		EN374-3	> 8 Hours
Heptane	142-82-5	J	EN374-3	> 8 Hours
Hexane	110-54-3		EN374-3	> 7 Hours
Hydrazine	302-01-2		EN374-3	> 8 Hours
Hydrazine 5%	7803-57-8		EN374-3	> 8 Hours
Hydrochloric Acid 37%	7647-01-0		EN 16523	> 32 Hours
Hydrofluoric Acid 48%	7664-39-3	S	EN374-3	> 66 Hours
Hydrofluoric Acid 73%	7664-39-3		EN374-3	> 8 Hours
Hydrogen Chloride Gas	7647-01-0		EN374-3	> 8 Hours
Hydrogen Fluoride gas anhydrous	7664-39-3		EN374-3	> 1 Hour
Hydrogen Peroxide (10 volume (3%) solution)	7722-84-1		EN374-3	> 8 Hours
Hydrogen Peroxide 50%	7722-84-1	P	EN374-3	> 8 Hours

CHEMICAL	CAS NO.	LETTER	METHOD	BREAKTHROUGH
Iso-butane	75-28-5		EN374-3	> 8 Hours
Iso-butane followed by Hydrofluoric acid 71-75%	75-28-5 + 7664-39-3		EN374-3	> 8 Hours
Iso-propanol (IPA)	67-63-0		EN 16523	> 32 Hours
m-Cresol	108-39-4		EN374-3	> 8 Hours
Methanol	67-56-1	A	EN374-3	> 8 Hours
Methyl Ethyl Ketone (M.E.K) 2-Butanone	78-93-3		EN374-3	> 2 Hours
Methyl Iodide 99%	74-88-4		EN374-3	> 1.5 Hours
Methyl Methacrylate	80-62-6		EN 369	> 3 Hours
methyl-1,2-pyrrolidone	872-50-4		EN369	> 8 Hours
Methylene Chloride Gas	74-87-3		EN374-3	> 1 Hour
Monochloroacetic acid	79-11-8		EN374-3	> 8 Hours
Naphthalene	91-20-3		EN374-3	> 8 Hours
N,N-Dimethylaniline	121-69-7		EN374-3	> 8 Hours
N,N-dimetyl acetamide	127-19-5		EN374-3	> 8 Hours
Nitric Acid 50%	7697-37-2	M	EN 16523	> 32 Hours
Nitric Acid 70% conc	7697-37-2		EN 16523	> 32 Hours
Nitric Acid Etchant 80/20	7697-37-2		EN374-3	> 8 Hours
Nitro Benzene	98-95-3		EN374-3	> 3 Hours
Oleum 40% SO ₃	8014-95-7		EN374-3	> 8 Hours
Oxalic Acid saturated solution	6153-56-6		EN374-3	> 8 Hours
Phenol 50% in Methanol	108-95-2/ 67-56-1		EN374-3	> 8 Hours
Phosphoric acid 25%	7664-38-2		EN 16523	> 32 Hours
Phosphoric acid 75%	7664-38-2		EN 16523	> 32 Hours
Propylene 1,2 oxide	75-56-9		EN374-3	> 1 Hours
Red Fuming Nitric acid	7697-37-2		EN374-3	> 4 Hours
Sodium Cyanide 30wt%	143-33-9		EN374-3	> 8 Hours
Sodium Hydroxide 40%	1310-73-2	K	EN374-3	> 8 Hours
Sodium Hypochlorite 16%	7681-52-9	R	EN374-3	> 8 Hours
Styrene	100-42-5		EN374-3	> 8 Hours
Sulphuric Acid 50%	7664-93-9	L	EN 16523	> 8 Hours
Sulphuric Acid 96%	7664-93-9		EN374-3	> 8 Hours
Tetrachloroethylene	127-18-4		EN374-3	> 3 Hours
Tetraethyl Lead (Octel Anti Knock)	78-00-2		EN374-3	> 8 Hours
Tetrahydrofuran	109-99-9	H	EN374-3	> 3 Hours
Toluene	108-88-3	F	EN374-3	> 4 Hours
Toluene 2,4 Diisocyanate	584-84-9		EN374-3	> 8 Hours
Trichloroethane	71-55-6		EN374-3	> 6 Hours
Trichloroethylene 1,1,2	79-01-6		EN374-3	> 3 Hours
Triethanol-amine	102-71-6		EN374-3	> 8 Hours
Triethylene Glycol	112-27-6		EN374-3	> 8 Hours
Trigonox K-80 Cumyl hydroperoxide 80% / 20% Cumene	80-15-9/ 98-82-8		EN 369	> 8 Hours
Xylene	1330-20-7		EN374-3	> 4 Hours

Chemicals in **bold** are the 15 standard test chemicals defined in EN943-2:2002