

PROTECTIVE SUITS



AVEC[®]

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AVEC MS-1 – PERMEABLE PROTECTIVE SUIT



DESIGN CHARACTERISTICS

The suits and overalls are designed to protect body surface against :

- ▲ vapours, aerosols and droplets of chemical warfare agents
- ▲ radioactive dust
- ▲ biologically active particles

The CBRN Suits and Overalls we produce fulfills the NATO Army Armaments Group, Land Group 7, AEP-38.



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DESIGN CHARACTERISTICS

- ▲ **Double layer closing at the end of the sleeve and foot**
 - ▲ **Elastic loop at the end of each cuff**
 - ▲ **Adjustable waist for better fitting**
 - ▲ **Sizes available from XS to 4XL**
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- ▲ **The CBRN protective clothing is easy to use and provide good comfort for the wearer.**
 - ▲ **Any colour or camouflage print can be done. Colour reference data and printing design information must be provided by the client.**
 - ▲ **All CBRN protective suits have a connecting zipper system that prevents the top and the bottom part of the suit from sliding away from each other and thereby creating the risk of exposure against the Chemical Warfare Agents (CWA)**
 - ▲ **All the trimmings used for our CBRN clothing are water-repellent and the colour is matching the outer fabric.**



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DESIGN CHARACTERISTICS

- ▲ The activated carbon filter is based on carbon spheres
- ▲ Minimum 30 days of wearing time
- ▲ Minimum 10 washing at 40°C without decreasing the protection performance
- ▲ Minimum shelf life of 10 years if the suit is stored in its original packaging under proper storage conditions
- ▲ Flame Retardancy according to ISO 6940:2004
- ▲ Fully ergonomic and very light (2.3 kg - 2.5 kg)
- ▲ Front zipper covered with a special flap for easy donning and more protection
- ▲ Integrated hood is adaptable to most CBRN gas mask models on the market
- ▲ 2 design variants: two-piece suit and one-piece coverall
- ▲ R&D team available for special requests or integration of external interfaces



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CWA protection - mustard gas

▲ Laid droplet test HD 10g/m² 24h

Penetration original < 0.08 µg/cm²

Penetration 10x washed 40°C < 0.08 µg/cm²

▲ Vapour test HD 11mg/m³ 5m/s 6h

Penetrated dose original < 4,0 mg.min/m³

Penetrated dose 10x washed 40°C < 28 mg.min/m³

▲ Vapour test HD 55 mg/m³ 1m/s 6h

Penetrated dose original < 12 mg.min/m³

Penetrated dose 10x washed 40°C < 20 mg.min/m³



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CWA protection - soman

▲ Laid droplet test GD 10g/m² 24h

Penetration original < 0.32 µg/cm²

Penetration 10x washed 40°C < 0.10 µg/cm²

▲ Vapour test GD 11mg/m³ 5m/s 6h

Penetrated dose original < 68 mg.min/m³

Penetrated dose 10x washed 40°C < 48 mg.min/m³

▲ Vapour test GD 55 mg/m³ 1m/s 6h

Penetrated dose original < 14 mg.min/m³

Penetrated dose 10x washed 40°C < 16 mg.min/m³

CWA protection - VX

▲ Laid droplet test VX 10mg/m³ 24h

Penetrated dose original < 0,93 mg.min/m³

Penetrated dose 10x washed 40°C < 0,48 mg.min/m³



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AVEC MS-1 – PROTECTIVE TEXTILE FABRIC LYNX TECALE 220

DESCRIPTION			
Fire protection, breathable, comfort use			
STRUCTURAL PARAMETRES	EN ISO	Specification	Tolerance
Weave	EN 40161	Ripstop	
Global composition	EN 40110	65% Lenzing FR/ 22% AR/ 12% PA/ 1% Antistatic	+/- 3%
Weight (g/m2)	EN 40339	220	+/- 5%
Width (cm)	EN 1773	155	+/- 1
MECHANICAL QUALITIES	Method	Values	
Tensile strength warp	EN 13934-1	700 N	
Tensile strength weft	EN 13934-1	500 N	
Tear strength warp	EN 13937-2	20 N	
Tear strength weft	EN 13937-2	20 N	
Pilling	EN 12945-2	5	
Abrasion	EN 12947-2	> 80.000 cycles	
DIMENSIONAL STABILITY TO WASHINGS	Method	Values	
Warp	EN 25077	< 3%	
Weft	EN 25077	< 3%	
NORMATIVE			Level
EN 11612 Protective clothing - Clothing to protect against heat and flame.			A1 A2 B1 C1 F1
EN 1149-3 Protective clothing - Electrostatic properties - Part 3: Test methods for measurement of charge decay.			Pass
WASHING LABELS			





CBRN PERSONAL AND COLLECTIVE PROTECTION

AVEC CHEM S.R.O.

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