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CPS 7800

Chemical protective clothing 1b type (EN943-1)

Technical specifications

Performance type (based on EN943): Type 1b (chemical protection against gases, liquid chemicals, liquid aerosols and solid particles)
Self-contained breathing apparatus is worn on the outside of the suit

Suit Material: D-mex™
Operating temperature: -30 °C to +60 °C
Storage temperature: -30 °C to +60 °C
Weight (without ventilation system):
- With face cuff and boots approx. 5.4 kg
- With full face mask and boots approx. 6.2 kg

Certifications:
- EN 943-1:2002 EU requirements for gas-proof protective suits for industrial use
- EN 943-2:2002 (ET) EU requirements for gas-proof protective suits for firefighters' response
- EN 1073-1:2 Protection against radioactive particles contamination
- EN 14126 Protection against contagious agents contamination
- EN 14593 Supply via supplied air respirator with on-demand valve
- vfdb 08/01:2006-11 German requirements for firefighters' gas impermeable protective suits for (pending)
- BS 8467 UK Requirements for NBC Gas Impermeable Protective Coveralls
- SOLAS Requirements for maritime uses

Mechanical tests according to EN943 part 2 ranging from 1 (the lowest) to 6 (the highest):
- Resistance to abrasion, flexion, bursting: 6
- Tear and puncture resistance: 3

Product description

The reusable, gas-proof **CPS 7800** chemical protective clothing (type 1b) provides excellent protection against gaseous, liquid and solid substances as well as against aerosols, even in explosive areas. Thanks to its innovative materials and new design, it offers improved flexibility and comfort when entering confined spaces or working in the presence of cryogenic substances.

The new anti-static D-mex™ material offers excellent chemical and mechanical resistance exceeding the international industry standards requirements for reusable protective equipment. Its ergonomic cut and the five sizes available allow a high degree of heights adaptability for from 1.50 m to 2.05 m. In addition, the significantly lighter and softer material is ideally suited to allow great freedom of movement.

The innovative and unique D-mex ™ material has five layers. The interior and exterior have a particularly strong elastomer layer and a chemical resistant barrier layer so that it retains its full protective capacity even when the material is damaged on the outside. Its electrostatic capacities make it possible to use the suit in explosive areas. If a spark does occur despite this remarkable construction, the flame-retardant, self-extinguishing material protects the wearer from serious burns. The flexibility of D-mex™ even makes it possible to handle liquefied gases such as ammonia at a -80 °C contact temperature.

Chemical tests:

Chemical	Breakthrough time*	Chemical	Breakthrough time*
Acetone	> 540 min	Methanol	> 540 min
Acetronitrile	> 540 min	Methyl Chloride	> 540 min
Ammonia	> 540 min	Mustard gas (HD) **	> 1440 min
1,3-Butadiene	> 540 min	n-heptane	> 540 min
Carbon disulphide	> 540 min	Sarin (GB) **	> 1440 min
Chlorine	> 540 min	40% sodium hydroxide	> 540 min
Dichloromethane	> 540 min	Soman (GD) **	> 1440 min
Diethylamine	> 540 min	96% sulfuric acid	> 480 min
Ethyl acetate	> 540 min	Tetrachlorethylene	> 540 min
Ethylene oxide	> 540 min	Tetrahydrofuran	> 540 min
Hydrogen chloride	> 540 min	Toluene	> 540 min
Lewisite (L)**	> 180 min	VX**	> 1440 min

* According to EN 943 part 2 standard / ** According to FINABEL 0.7.C standard

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