

► CPS 7900

Chemical protective clothing type 1a (EN943-1)



Technical specifications

Performance type (according to EN943): Type 1a (gas-proof chemical protection against liquid chemicals, liquid aerosols and solid particles)

Self-contained breathing apparatus is worn under the suit for maximum protection

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

Fastening: zipper on the side, can be opened from the top or the bottom. Snap or hook-and-loop flap

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 1073-2 Protection against contamination by radioactive particles
- EN 14126 Protection against contamination by contagious agents
- BS 8467 UK Requirements for Gas Impermeable CBRN Protective Coveralls
- SOLAS Requirements for maritime uses
- EX PROTECTION suitable for operations in all potentially explosive areas

Mechanical tests based on 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

Made to order for extreme conditions use, the Dräger **CPS 7900** gas-proof suit provides excellent protection against industrial chemicals, biological agents, and other toxic substances. It is a type 1a protective clothing according to EN943 and the self-contained breathing apparatus is worn under the suit for maximum protection.

It is designed to protect the wearer when handling toxic or hazardous materials. The suit material, D-mex™, offers unique resistance to many substances as well as excellent protection against mechanical hazards, liquefied gases and flames. Its ergonomic cut and the five available sizes allow a high adaptability degree for 1.50 m to 2.05 m heights. The **CPS 7900** meets and exceeds international standards' requirements for fire departments, rescue organizations and industry.

The innovative and unique D-mex™ material has five layers. The interior and exterior have a particularly strong elastomeric 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 its 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
Acetonitrile	> 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

* Based on EN 943 part 2 standard / ** Based on FINABEL 0.7.C standard