

The right chemical protective suit

Choosing the right chemical protective suit is crucial for safety and protection when handling hazardous substances. This guide provides a structured overview of Dräger's chemical protective suits - from approval and test standards to the various configuration options. It also provides the opportunity for direct comparison with competitor products in order to reach a well-founded, practical decision.



Comparison criterion	Dräger CPS 7900	Dräger CPS 5900	Market competitor
Approval and test standard			
Type approval (EN 943-1: Basic requirements)	✓	✓	
Type approval (EN 943-2: Extended requirements - Emergency teams)	✓	✓	
Normal robustness (basic requirement for mechanical robustness, generally not reusable)	✓ Exceeded	✓	
Increased robustness (high mechanical protection, generally reusable – important for use in the immediate hazardous area)	✓	✗	
Electrostatic properties (suitability in potentially explosive atmospheres)	✓ Permanent due to material properties	✗	
Temperature resistance (suitable/tested in extreme cold or heat environments, flash flames caused by chemicals, contact heat, spraying with liquefied gases)	Pyroman test (4 sec. 1,095 °C); resistance to flame exposure: Class 3 according to EN 943-1 ; cold resistance for spraying with liquefied gases	Limited resistance to the effects of flame: Class 1 in accordance with EN 943-1	
System approval for external air supply (air source, (airline) pass thru, connection to the self-contained breathing apparatus)	✓	✓	

Comparison criterion	Dräger CPS 7900	Dräger CPS 5900	Market competitor
Possible configuration			
Customised production (tailored configuration, optimum coverage of requirements)	✓	✗	
Individual labelling (recognition during use, permanent, durable even after cleaning, reflective or multicoloured if required)	✓	✗	
Simple adaptation of additional equipment (e.g. measuring device, bent-head lamp or other equipment possible)	✓	✗	
Attachment rings (allow additional individual attachment of accessories such as thermal imaging camera or tools to the suit)	✓	✗	
Range of sizes on offer (increased safety through correctly fitting suit)	5 sizes (S-XXL) 150 to 210 cm	5 sizes (S-XXL) 150 to 210 cm	
Adjustment of standard sizes to increase wearing comfort and safety (length adjustment with weight distribution to the hips – via PA straps or braces)	✓ Length adjustment available	✗ Limited by waist belt	
Rescue handle for emergency situations (simplified emergency rescue thanks to externally attached rescue handle with strain relief connection to the respiratory protective device)	✓	✗	
Fog-resistant visor (prevents the fogging of the inside of the visor)	✓	✗	
Scratch-resistant visor (protects the main visor, quick and easy replacement)	✓	✗	
Connection to the safety harness (for greater safety at heights)	✓	✗	
Pressure gauge mount (device in the suit for attaching the pressure gauge of the self-contained breathing apparatus in the wearer's field of vision)	✓	✗	
Service			
Decontamination service (service for decontamination and reprocessing of protective suits with free provision of loaned suits by the manufacturer)	✓ By the manufacturer	✗	
Product-specific training (training: qualified person for maintaining chemical protective suits)	✓	✓	
Incoming goods inspection (visual inspection and leak test by customer possible)	✓ Possible with sealing tag	✓	
Total cost analysis			
Shelf life (usable time independent of operational load)	15 years without testing by the manufacturer	10 years without testing by the manufacturer	
Inspection and maintenance intervals according to the manufacturer's specifications (stricter national inspection specifications must be observed!)	After incoming goods inspection, five years inspection-free with a sealing tag, then every two years if stored in the original storage bag. Maintenance only includes servicing of the closure system. No regular replacement of components such as valve discs or boots during the service life.	Inspection every two years when stored in the original storage bag. No necessary maintenance activities/replacement intervals	

Corporate headquarters
 Drägerwerk AG & Co. KGaA
 Moisinger Allee 53-55
 23558 Lübeck, Germany
 www.draeger.com



Locate your regional sales partner at:
www.draeger.com/contact