

Dräger CPS 7800 Gas-Tight Suit

The reusable gas-tight Dräger CPS 7800 provides excellent protection against gaseous, liquid, aerosol and solid hazardous substances even in explosive areas. Due to its innovative material and the new suit design it offers increased flexibility and comfort when entering confined spaces and working with cryogenic substances.



Flexible gas-tight face cuff (optional)

- Can be combined with various full face masks

Gas-tight zipper with cover flap on the front side

- Closes from top to bottom
- No help of a second person required for donning
- Cover flap made from suit material with hook-and-loop fastener protects the external zipper chain

Chemical-tight safety gloves

- Easily replaceable
- Attached to the suit

Braces

- Increases wearing comfort

Diagonal zipper design

- Increases wearing comfort

Dräger RV PT 120 L (optional)

- A connection to a compressed air hose system, a ring line or an external air supply is possible: when connected an adjustable air flow cools the suit and reduces the humidity inside.

Integrated safety boots facilitate donning on the suit

- Alternatively, gas tight socks can be chosen which offers flexibility when selecting boots

D-442619-2012

Benefits

Gas-tight suit

- SCBA worn over the protective suit
 - five suit sizes (S-XXL)
 - diagonal zipper for easy donning and doffing without assistance
 - suit material D-mex, reusable
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Reliable protection

The Dräger CPS 7800 (type 1b) protects against a multitude of possible dangers when dealing with hazardous substances. The antistatic material D-mex™ offers excellent chemical resistance and protection against mechanical influences. The Dräger CPS 7800 exceeds the requirements of international industry standards for reusable protective suits.

D-mex™: 5-fold safety

D-mex™, the unique suit material, consists of five layers and its reliability has been proven during hazardous substance deployments by the fire service. The middle layer consists of a mechanically extremely strong but flexible textile; on the inside and outside there is a particularly robust elastomer layer, as well as a chemically high-resistant barrier layer. With this design, the suit retains its full protection performance even if the outer material is damaged.

Fitted, flexible and comfortable

The Dräger CPS 7800 increases the wearing comfort even during difficult work in hazardous areas. With its ergonomic cut and five sizes to choose from it offers the highest degree of flexibility for wearers ranging from 1.50 m to 2.05 m in height. In addition, the light and soft suit material adapts ideally for a full range of movement. Offered as an option, individually adjustable braces provide even greater wearing comfort to the user and an improved fit of the suit. A newly designed fit means you don the Dräger CPS 7800 with more ease, can put on and remove the suit by yourself, and shut the zip fasteners without assistance.

Always ready

Time and expense for regular testing could be reduced significantly through innovative materials and new service concepts. The suit can also be cleaned and disinfected automatically without complications. This reduces the effort required to keep the suit ready for use over its lifetime of up to 15 years. An unused suit with face cuff can even be stored for five years without servicing. If repair or maintenance is required, this can be performed by the service technician. Of course, DrägerService is equally happy to perform these tasks.

Ready for the extraordinary

With optional accessories, the Dräger CPS 7800 can be adapted to be even more individual to meet your specific requirements and in turn extend your deployment options further. The suit is available with an

Benefits

integrated Panorama Nova full face mask or face cuff. Stress reduction, especially during prolonged use, can be achieved by equipping the suit with ventilation systems. The Dräger CPS 7800 features an optional ventilation system with the integrated regulating valve PT 120 L that can be connected to different breathing air sources. The suit can also be printed with a customer-specific design, if desired. The Dräger CPS 7800 training suit permits you to perform exercises in realistic scenarios outside contaminated areas with the same equipment characteristics.

System Components



D-0915-2019

Dräger PSS® AirBoss

The Dräger PSS® AirBoss offers best in class ergonomics and is one of the lightest weight breathing apparatus for firefighting. Lessons learned from firefighters around the world as well as latest innovations in technology have led us to design an even safer and cleaner SCBA system that enables you to breathe more easily and for longer.



D-46350-2012

Dräger PAS® Filter series

The Dräger PAS® filters reliably clean air, e.g. from an existing high-pressure network, from liquid and solid particles, including oil vapour and smell.

System Components

ST-6185-2007



Dräger PAS® ASV

The Dräger Automatic Switch over Valve (PAS® ASV) enables the user to connect compressed air breathing apparatus to an external air supply, such as a factory ring main, and be safe in the knowledge that if the external supply were to fail, there would be a safe and uninterrupted transition to the wearer's back-up air supply.

D-13077-2010



Dräger Comfort Vest

Increased performance by up to four hours – without the need for elaborate preparation or logistics: when work gets hot, the Dräger Comfort Vest CVP 5220 is always ready to use as it delivers the cooling action itself. This means: no pre-freezing, no dipping into water, no risk due to dangerous circulating air – and no time loss.

ST-3560-2003



Dräger PAS® AirPack 1

Designed using leading technology and materials, Dräger's range of heavy-duty airline apparatus is ideal for use where an extended duration of breathing air is called for. Chemical tank cleaning, toxic spillages or certain tasks when working on offshore installations are all made easier and more comfortable when using the Dräger PAS® AirPack 1.

D-0427-2019

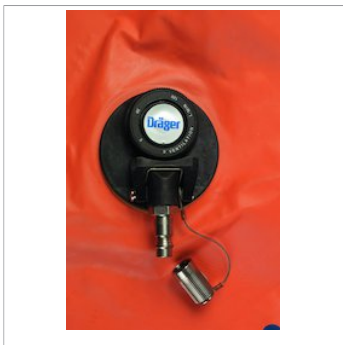


Dräger HPS® SafeGuard

The Dräger HPS® SafeGuard is the extremely lightweight universal helmet for fire and rescue services. Its innovative design combines optimal protection with the highest levels of wearing comfort. Its sporty look, light weight and tailor-made accessories make the helmet a real all-rounder for any challenge.

Accessories

ST-140-2007



Dräger Regulation Valve Dräger PT 120 L (optional)

Cooling effect on the body and additional breathing air from external sources.

D-4995-2010



Socks with gaiters

Can be worn with the safety boots and, therefore, providing huge flexibility in choosing the right boot.

D-4904-2010



Laminate + Tricotril combination

Combining mechanical and chemical protection in one – offering high sensitivity, in sizes 10 to 11.

ST-6190-2006



Tricotril® over gloves

Cut resistance and chemical protection glove all in one, available in sizes 10 and 11.

Accessories



ST-799-2008

Rubber ring

For fixing the over glove to the sleeve.



ST-5692-2004

Nitrile-P boots

Firefighter's boots with toecaps, provide excellent protection against penetration, cutting and abrasion. Extra comfortable, in sizes 43 to 50.



ST-6202-2006

Cotton gloves

Optional glove for hygienic wear under chemical protection gloves.



ST-15204-2008

K-MEX® Gigant over gloves

Additional cut resistance, available in size 14.

Related Products

D-4598-2010



Dräger CPS 7900

Tailor-made for use under extreme conditions: The gas-tight Dräger CPS 7900 provides excellent protection against industrial chemicals, biological agents, and other toxic substances. Its innovative material qualifies the CPS 7900 equally well for work in explosive areas and for handling cryogenic substances.

D-22732-2009



Dräger CPS 5900

The Dräger CPS 5900 is the ideal limited-use, gas-tight chemical protective suit for hazmat incidents. Where complete protection against hazardous gases, liquids and particles is of the utmost priority, this lightweight garment is the suit of choice.

D-1308E-2010



Dräger CPS 5800

The Dräger CPS 5800 is a limited-use chemical protective suit for industrial applications and operations on board that involve a gaseous, liquid or solid hazardous substance.

Technical Data

Suit material	D-mex™	
Temperature	During use	-30 °C to +60 °C (temperatures as low as -80 °C are possible for short-term exposure and have been tested by Dräger for the D-mex™ material (but not as part of the EC type approval test))
Weight	During storage	-30 °C to +60 °C
	With face cuff and socks	approx. 3.5 kg without ventilation system
	With face cuff and boots	approx. 5.4 kg without ventilation system
	With full face mask and socks	approx. 4.3 kg without ventilation system
	With full face mask and boots	approx. 6.2 kg without ventilation system

APPROVALS

PPE Regulation (EU) 2016/425	Requirements for Personal Protective Equipment
EN 943-1	EU requirements for gas-tight protective suits for industrial applications
EN 943-2 (ET)	EU requirements for gas-tight protective suits for use by firefighters
EN 1073-1	Protection against contamination from radioactive particles
EN ISO 13688	Protective Equipment - general requirements
EN 14126	Protection against contamination from infectious agents
ISO 16602	International requirements for chemical protective suits
BS 8467	British requirements for gas-tight NBC protective suits
SOLAS	Requirements for the use on deep-sea vessels

CHEMICAL TESTS

Chemical	Permeation time in min*	Chemical	Permeation time in min*	Chemical	Permeation time in min*
Acetone	>480	Ethyl acetate	>480	Sarin (GB)**	>1440
Acetonitrile	>480	Ethylene oxide	>480	Sodium hydroxide 40 %	>480
Ammonia	>480	Hydrogen chloride	>480	Soman (GD)**	>1440
1,3-Butadiene	>480	Lewisite (L)**	>180	Sulphuric acid 96 %	>480
Carbon disulphide	>480	Methanol	>480	Tetrachloroethylene	>480
Chlorine	>480	Methyl chloride	>480	Tetrahydrofuran	>480
Dichlormethane	>480	Mustard gas (HD)**	>1440	Toluene	>480
Diethylamine	>480	n-Heptane	>480	VX**	>1440

Via the constantly updated Dräger VOICE database you can find out about chemical resistance and decontamination processes: <http://www.draeger.com/voice>

* Permeation times in accordance with EN 943 part 2.

** Permeation times in accordance with FINABEL 0.7.C

MECHANICAL TESTS

Test in accordance with EN 943	Class***
Abrasion resistance	6
Flex-cracking resistance	6
Flex-cracking resistance at -30 °C	6
Tear resistance	3
Burst strength	6
Penetration resistance	3

*** classes in accordance with EN 943 part 2 – from 1 (lowest) to 6 (highest).

Ordering Information

		Order No.
Dräger CPS 7800	Blue or orange	R 29 650
	Olive or beige	R 29 700
Dräger CPS 7800 Training	Blue (Umex material)	R 29 660
Sizes	Size S: body heights 1.50 m to 1.65 m	Basic components
	Size M: body heights 1.60 m to 1.75 m	
	Size L for body heights 1.70 m to 1.85 m	
	Size XL: body heights 1.80 m to 1.95 m	
	Size XXL: body heights 1.90 m to 2.05 m	
Integrated boots or socks	Safety boots: sizes 43 to 50 (German sizing system)	Basic components
	Gas-tight socks in 3 sizes: 40 to 50 (German sizing system)	
Face connection	Face cuff (gas-tight)	Basic components
	Integrated full face mask	
Gloves	Fluoroelastomer-Butyl (FKM-IIR) gloves: sizes 9 to 11	Basic components
	Laminate + Triotril glove combination: sizes 10 + 11	
	Laminate + Butyl glove combination: sizes 10 to 11	
Glove accessories	Cotton gloves	Accessories
	Gas-tight arm cuff	
	Cut-resistant overgloves Tricotril®	
	K-MEX® Gigant	
Ventilation	Regulating valve PT 120 L	Accessories
Wearing comfort	Braces	Accessories
Storage and transport	Carry bag	Accessories
	CPS Storage and transportation bag	
	Storage box	
Customer-specific printing	On thigh, lower arm front or	Accessories
	Upper arm rear in various colours	

The modular system allows the protective suit to be adapted to the customer's individual requirements.

Tricotril® is a registered trademark of KCL GmbH.

K-MEX® is a registered trademark of KCL GmbH.

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

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