

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

- For easier donning and doffing

Ventilation system 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. At the same time, the system ensures the breathing air supply for longer periods of use

Integrated safety boots facilitate donning on the suit

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

D-44269-2012

Benefits

Reliable protection

The Dräger CPS 7800 (Typ 1b) protects against a multitude of possible dangers when dealing with hazardous substances. The novel 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. Tear-proof textile forms the middle layer; 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 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-13629-2010

Dräger Panorama Nova®

The respiratory mask Panorama Nova® meets the highest standards of protection, sealing and quality. For decades proven worldwide, the full face mask represents absolute reliability in the protection of the respiratory tract and eyes.



D-46349-2012

Dräger PAS® Filter series

PAS® Filters reliably clean air, e.g. from an existing high-pressure network, from liquid and solid particles, including oil vapour and smell. This not only means that you get breathing air which even exceeds the specifications of DIN EN 12021. You also save yourself the need of a separate breathing air line.



D-39860-2011

Dräger PAS® Lite

For use in industrial applications where a simple, robust and easy to use breathing apparatus is required, the Dräger PAS® Lite Self-Contained Breathing Apparatus (SCBA) combines reliability with comfort and performance.



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.

System components



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.



D-10572-2011

Dräger FPS®-COM 5000

Because there is no time for misunderstanding in an emergency: The Dräger FPS®-COM 5000 communication unit replaces the proven Dräger FPS®-COM-PLUS. It has been specifically developed for the full-face mask Dräger FPS® 7000 and ensures clear communication through a voice amplifier unit or radio device – even under extreme conditions.



ST-3960-2003

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-59562-2012

Dräger HPS® 7000

The Dräger HPS® 7000 firefighter's helmet is in a class of its own, thanks to its innovative, sporty and dynamic design, ergonomic fit and components which make it a multifunctional system solution. It provides optimum protection during every operation.

Accessories

ST-140-2007



Dräger PT 120 L control valve

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 maximum wearer comfort.

D-4904-2010



New EN-glove combination

Combining mechanical and chemical protection in one - offering high sensitivity, in sizes 10 to 11 (Silvershield/Tricotril)."

ST-6190-2006



Tricotril® over gloves

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

Accessories



Rubber ring

For fixing the over glove to the sleeve.



Nitrile-P boots

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



Known EN-glove combination

Made from Viton or Viton/Butyl, in sizes 9 to 11.



Cotton gloves

Optional glove for hygienic wear under chemical protection gloves.

Accessories



ST-15204-2008

K-MEX® Gigant over gloves

Additional cut resistance, available in size 14.

Related Products



D-4596-2010

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 disposable, 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.

Related Products



D-13098-2010

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

EN 943-1:2002	EU requirements for gas-tight protective suits for industrial applications
EN 943-2:2002 (ET)	EU requirements for gas-tight protective suits for use by firefighters
EN 1073-1/2	Protection against contamination from radioactive particles
EN 14126	Protection against contamination from infectious agents
EN 14593	Supply via air line breathing apparatus with lung governed demand valve
vfdb 08/01:2006-11	German requirements for gas-tight protective suits for use by fire services (pending)
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	>540	Ethyl acetate	>540	Sarin (GB)**	>1440
Acetonitrile	>540	Ethylene oxide	>540	Sodium hydroxide 40 %	>540
Ammonia	>540	Hydrogen chloride	>540	Soman (GD)**	>1440
1,3-Butadiene	>540	Lewisite (L)**	>180	Sulphuric acid 96 %	>480
Carbon disulphide	>540	Methanol	>540	Tetrachloroethylene	>540
Chlorine	>540	Methyl chloride	>540	Tetrahydrofuran	>540
Dichlormethane	>540	Mustard gas (HD)**	>1440	Toluene	>540
Diethylamine	>540	n-Heptane	>540	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

Technical Data

*** 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 for body heights from 1.50 m to 1.65 m Size M for body heights from 1.60 m to 1.75 m Size L for body heights from 1.70 m to 1.85 m Size XL for body heights from 1.80 m to 1.95 m Size XXL for body heights from 1.90 m to 2.05 m	Basic components
Integrated boots or socks	Safety boots in sizes 43 to 50 (German sizing system) Gas-tight socks in 3 sizes from 40 to 50 (German sizing system)	Basic components
Face connection	Face cuff (gas-tight) Integrated full face mask	Basic components
Gloves	Previous EN combination (FKM) in sizes 9 to 11 Previous EN combination (FKM/Butyl) in sizes 9 to 11 New EN combination (foil glove/Tricotril®) in sizes 10 to 11	Basic components
Glove accessories	Cotton gloves Gas-tight arm sleeve/wristband Cut-resistant overgloves Tricotril® or K-MEX® Gigant	Accessories
Ventilation	Regulating valve PT 120 L	Accessories
Wearing comfort	Braces	Accessories
Storage and transport	Carry bag CPS Storage and carry bag Storage box	Accessories
Customer-specific printing	On thigh, lower arm front or upper arm rear in various colours	Accessories

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.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.