

Dräger CPS 7800 Chemical protective suit for industrial use

The reusable gas-tight Dräger CPS 7800 (type 1b) 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.



D-48576-2012

PROTECTION IN A CLASS OF ITS OWN

The Dräger CPS 7800 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 significantly lighter and softer 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.



D-44241-2012

Dräger CPS 7800, blue
with Dräger RV PT 120 L ventilation system, Dräger PAS Lite and Dräger PAS AirPack 1 external breathing air source



D-44401-2012

Dräger CPS 7800, orange
with Dräger RV PT 120 L ventilation system, Dräger PSS 3000, automatic switch-over valve Dräger PAS ASV for CPS and external breathing air source

D-44090-2012



The face cuff on the Dräger CPS 7800 offers flexibility when choosing the full face mask.

D-52624-2012



Alternatively, the Dräger CPS 7800 is also available with a permanently integrated Dräger Panorama Nova full face mask. The optimized hood design increases the comfort when wearing a helmet.

D-44030-2012



The optional braces significantly increase the wearers comfort.

D-52623-2012



The Dräger glove attachment allows gloves to be changed quickly without tools.

D-52625-2012



Integrated safety boots facilitate donning of the suit.

D-44231-2012



D-52625-2012



Alternatively, gas-tight socks offer flexibility when selecting boots.

D-4802-2010



The RV PT 120 L is an adjustable ventilation unit for cooling the suit interior.

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.

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))
	During storage	-30 °C to +60 °C
Weight	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	Breathing air supply system
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 (pending)
SOLAS	Requirements for the use on deep-sea vessels (pending)

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 %	>240
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 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 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 (Viton) in sizes 9 to 11 Previous EN combination (Viton/Butyl) in sizes 9 to 11 New EN combination (Silvershield/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 Storage and carry bag Storage box	Accessories
Customer-specific printing	On thigh, lower arm front or upper arm rear in various colours	Accessories

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