

# Dräger CDR 4500 NIOSH CBRN Approved



ST-513-2007

The Dräger CDR 4500 full-face mask was specifically designed for use in civil defense and civil protection. Together with CBRN Cap 1 Canister, the mask provides effective protection against hazardous substances in the ambient air.

The new Dräger CDR 4500 full-face mask offers complete protection of the respiratory organs and face from harmful gases and particles in the ambient air. The elastomer mask body is extremely resistant to chemicals and mechanical impact. The emergency response teams appreciate its simple handling, outstanding comfort and excellent fit for a wide range of head and face sizes. A neck strap is supplied as standard.

specially chosen materials and first-class workmanship ensures a high standard of quality and long service life. The mask is tested and approved to NIOSH CBRN.

The CDR 4500, combined with our CBRN Cap 1 canister provides proven protection from a wide variety of potentially hazardous situations. The combination has passed rigorous chemical permeation and penetration resistance tests using sarin and mustard gases. The ten gases that the Cap 1 canister has been tested against represent protection from approximately 140 different gases, in addition to the P100 particulate protection. This versatile mask and filter combination represents an important part of the personal protective equipment for emergency response teams.



Dräger CDR 4500 full-face mask

ST-1278-2004

The centrally located and standard NATO canister connection ensures a good balance and prevents the mask slipping on the face even during prolonged use. The lens provides a large, distortion free field of vision, while the integrated speech diaphragm enables clear man-to-man communication. The



CBRN Cap 1 Canister

ST-514-2007

### TEST DATA

NIOSH CBRN Testing Agents	Test Conc. (ppm)	Breakthrough (ppm)
Ammonia	2500	12.5
Cyanogen Chloride	300	2
Cyclohexane <sup>1</sup>	2600	10
Formaldehyde	500	1
Hydrogen Cyanide	940	4.7 <sup>2</sup>
Hydrogen Sulfide	1000	5
Nitrogen Dioxide	200	1 NO or 25 NO <sub>2</sub> <sup>3</sup>
Phosgene	250	1.25
Phosphine	300	0.3
Sulfur Dioxide	1500	5

<sup>1</sup>Cyclohexane is representative of organic vapors with a vapor pressure less than or equal to Cyclohexane.

<sup>2</sup>Sum of HCN and C<sub>2</sub>N<sub>2</sub>

<sup>3</sup>Nitrogen Dioxide is monitored for both NO and NO<sub>2</sub>, determined by which breaks through first.

## TECHNICAL DATA

### Dräger CDR 4500 Full-face Mask

Mask as a whole	High chemical resistance according to (US NIOSH CBRN standard) resistance even against warfare agents
Mask body	Silicone-free elastomer
Sealing frame	Double seal with triple sealing line for comfortable, tight fit
Lens	Impact-proof polycarbonate (PC) with anti-scratch coating on both sides for high chemical resistance Large field of vision and excellent quality of vision
Filter connection	Standard thread NATO 40 mm
Weight	Approximately 500 g (without filter)
Harness	5-point (large adjusting points to prevent trapping of hair)
Neck strap	As standard
Speech diaphragm	Stainless steel, high speech quality
Resistance	To US CBRN APR standard against sarin and mustard gas for up to 8 hours. Test description and test concentration on request.
Service life	> 10 years (storage and servicing as per manual)
Canister	Shelf-life minimum 10 years (in original packaging)
Approvals	US NIOSH CBRN standard (TC-14G-0286) also approved to (EN 136 Cl. 3, CE mark)

Further information available from the technical datasheet

## ORDERING INFORMATION

Dräger CDR 4500 (black plastic lens frame), universal size	R 55 440
Dräger CDR 4500 (black SS lens frame), small	R 55 575
Dräger CDR 4500 (black SS lens frame), medium	R 55 710
Dräger CDR 4500 (black SS lens frame), large	R 55 580
CBRN Cap 1 Canister	6738146

### Accessories

Tactical Mask Bag	4056997
Hard Plastic Full Mask Carry Case	R 51 019
Spectacle kit	R 51 548
"Klar Pilot" antifog gel (50 ml)	R 52 560
Trispec Spectacle Kit	4057622
Air-Klem AO33 Disinfectant Powder	4054085
Alcohol Free Wipes, Box of 100	4053845
Portacount Fit Test Adapter	4056315
Fit Tester 3000 Adapter	4056718

## SUBSIDIARIES

**DRAEGER SAFETY, INC.**  
101 Technology Drive  
Pittsburgh, PA 15275-1057  
USA  
Tel 1-412-787-8383  
Fax 1-412-787-2207  
www.draeger.com

**CUSTOMER SERVICE**  
Tel 1-800-858-1737  
Fax 1-800-922-5519

**TECHNICAL SERVICES**  
Tel 1-888-794-3806  
Fax 1-888-794-3807

**DRAEGER SAFETY CANADA LTD.**  
7555 Danbro Crescent  
Mississauga, ON L5N-6P9  
Canada  
Tel 1-905-821-8988  
Fax 1-905-821-2565

**CUSTOMER SERVICE**  
Tel 1-877-372-4371  
Fax 1-800-Fax-Tube

**DRAEGER SAFETY S.A. DE C.V.**  
Av. Peñuelas No. 5  
Bodega No. 37  
Fraccionamiento Industrial  
San Pedrito  
Queretaro, Qro. C.P. 76148  
Mexico  
Tel 1-52-442-246-1113  
Fax 1-52-442-246-1114

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**AFC International Inc**  
PO Box 894  
DeMotte IN 46310  
800.952.3293 • 219.987.6825 • fax 219.987.6826  
sales@afcintl.com • www.afcintl.com