



SCAPE[®] CO/CBRN30

The **ONLY NIOSH-Approved**
and **CE Marked** Air-Purifying
CBRN Escape Respirator with
a **Powered Ventilation System**

**Now CE
and UKCA
marked**



SCAPE® CO/CBRN³⁰

The only NIOSH-approved/ CE Marked 30-minute Air-Purifying Escape Respirator for CO (Carbon Monoxide) and CBRN



Why SCape from ILC Dover?

- Positive-Flow Ventilation System
- Proven Pedigree - over 500K units globally deployed
- Easy to Use
- Unparalleled protection against carbon monoxide, CBRN agents, and toxic industrial chemicals

Applications:

Government installations
 Chemical production & storage facilities
 Mass transit hubs and vehicles
 Ambulance fleets
 Dignitary protection

Specifications

- NIOSH Approval: TC-14G-0312 as Air Purifying Escape Respirator
- CE 797525 & UKCA 797527 Approval:
 - BS EN 403:2004, Type S (*Respiratory protective devices for self-rescue – filtering devices with hood for escape from fire*)
 - BS 8468 3.2:2020, Type 1, ES CBRN30 (*Respiratory protective devices for use against chemical, biological, radiological and nuclear (CBRN) agents. Air purifying devices incorporating a hood for escape*)
- EN 12941:1998+A2:2008
- (EU) 2016/425

SCape® CO/CBRN³⁰ System Level Agent (SMARTMAN) NIOSH Testing

Test Agent	Challenge Concentration	Service Time
Mustard (HD) Vapor	50 mg/m ³	>30
Mustard (HD) Liquid	0.43-0.86 ml	>30
Sarin (GB) Vapor	210 mg/m ³	>30

Per BS 8468-8:2020

HD (Mustard Agent)

Preconditioning	Protection factor	Maximum Consecutive Peaks (µg/m ³)	Dose (mg*min/m ³)	Breakthrough Time (min)
AR	933000	5.8/4.8/6.3	0.259	>60
TC	999000	<3*	<0.180	>60
TC	999000	<3*	<0.180	>60

*= Minimum reporting level

GB (Sarin)

Preconditioning	Protection factor	Maximum Consecutive Peaks (µg/m ³)	Dose (mg*min/m ³)	Breakthrough Time (min)
AR	999000	0.3/<0.3*/0.3	<0.018	>60
TC	603000	<0.3*	<0.018	>60
TC	185000	<0.3*	<0.018	>60

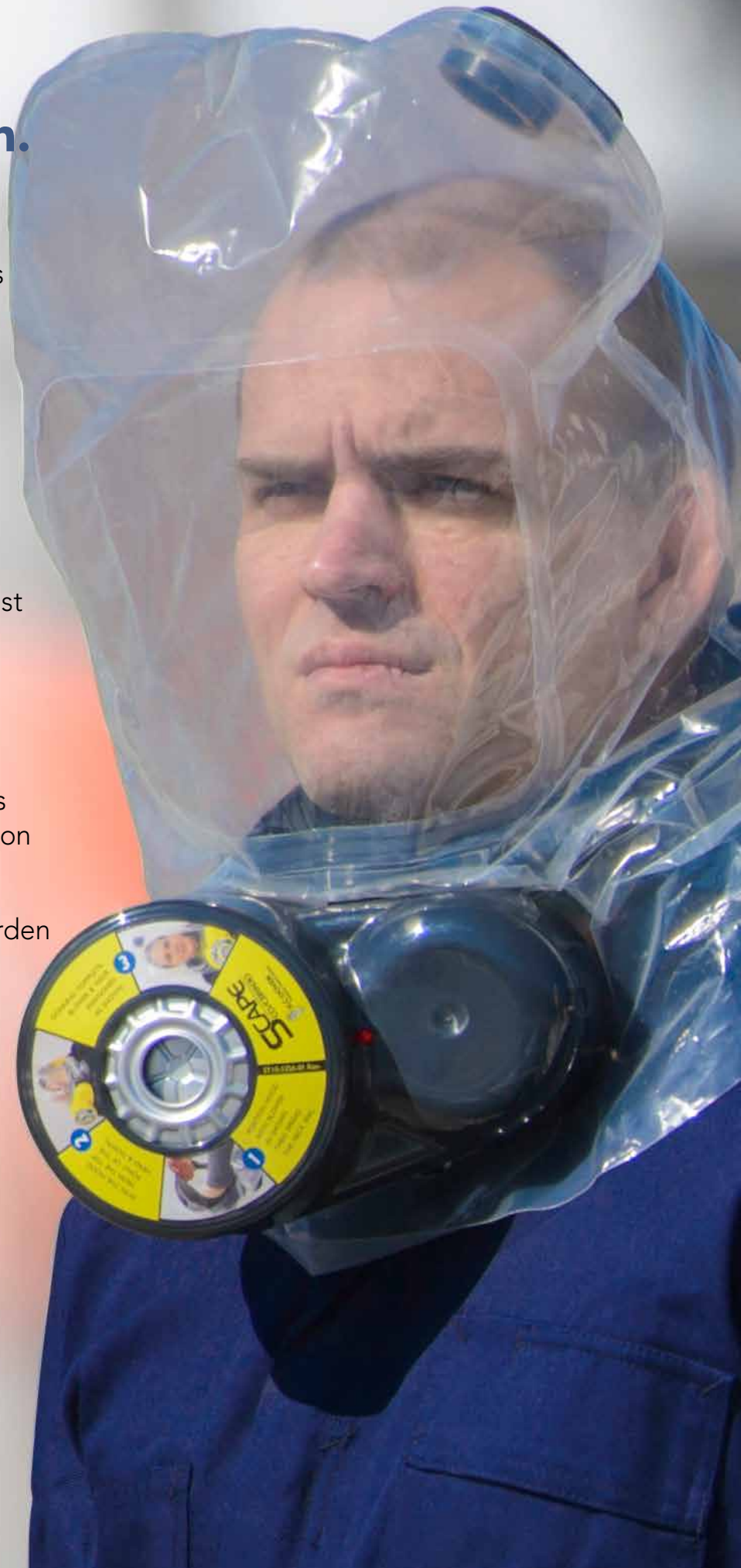
*= Minimum reporting level

QUICK & EASY TO DON



Safely and quickly maneuver out of a dangerous situation.

- **Integral Blower with Automatic Actuation** – dramatically improves protection levels and provides stress free breathing for all wearer fitness levels
- **Panoramic Field of View** – aids safe escape
- **30 Minutes of Protection** – against chemical warfare agents, toxic industrial chemicals, carbon monoxide and biologics
- **No Nosecup or Mouthbit** – eases communication and user recognition
- **Single Size** – reduces logistics burden



Chemical Testing per NIOSH CBRN APER standard and BS 8468-3.2:2020

Test Agent	Challenge Concentration (ppm) (64 lpm at both 25% & 80% RH)	Allowable Breakthrough (ppm)	Service Time (min)
Ammonia (NH ₃)	1250	25	>30
Cyanogen Chloride (CNCl)	150	2	>30
Cyclohexane (C ₆ H ₁₂)	1300	10	>30
Formaldehyde (CH ₂ O)	250	10	>30
Hydrogen Cyanide (HCN)	470	10	>30
Hydrogen Sulfide (H ₂ S)	500/1500	30	>30
Nitrogen Dioxide (NO ₂)	100	1	>30
Phosgene (COCl ₂)	125	1.25	>30
Phosphine (PH ₃)	150	0.5	>30
Sulfur Dioxide (SO ₂)	750	5	>30

Supplemental Chemical Testing

Test Agent	Challenge Concentration (ppm)	Allowable Breakthrough (ppm)	Service Time (min)
Acetic Acid [CH ₃ COOH]	1000	5	>30
Acrolein [C ₃ H ₄ O]	100	1	>30
Acrylonitrile [C ₃ H ₃ N]	1000	10	>30
Benzene [C ₆ H ₆]	1000	1	>30
Boron Trifluoride [BF ₃]	100	5	>30
Chlorine [Cl ₂]	1000	5	>30
Chlorine Dioxide [ClO ₂]	1000	2	>30
Fluorine [F ₂]	100	5	>30
Hexane [C ₆ H ₁₄]	2000	10	>30
Hydrogen Chloride [HCl]	500	5	>30
Hydrogen Fluoride [HF]	70	3	>30
Nitric Acid [HNO ₃]	100	2	>30
Toluene [C ₆ H ₅ CH ₃]	1000	10	>30

Carbon Monoxide (CO) Penetration Performance - NIOSH Testing

CO CHALLENGE CONCENTRATION	MAXIMUM ALLOWANCE PEAK EXCURSION (DETECTED CO LEVELS IN PARTS PER MILLION) AT 30 MINUTE IDENTIFIED SERVICE LIFE DURATION	RESULTING MAXIMUM PEAK EXCURSION (DETECTED CO LEVELS IN PPM)
3600 ppm	500 ppm	<200ppm
CO CHALLENGE CONCENTRATION	MAXIMUM ALLOWABLE CONCENTRATION TIME (CT) (PPM-MINUTES) FOR 30 MINUTE IDENTIFIED SERVICE LIFE DURATION**	RESULTING CONCENTRATION TIME (CT) (PPM-MINUTES) AT 30 MINUTES)
3600 ppm	12,075	<2000

*1500 ppm supplemental testing conducted on SCape® CO/CBRN at AT labs.

Carbon Monoxide Results per BS EN 403:2004

Test Gas	Test Concentration (ppm)	Flow Rate (l/min)	Conditions	Type & Class	Limit (ppm) ¹	Result
Carbon Monoxide	2500	64±1	(25±1) °C and 20.7g/m ³ of moisture content	S	200	Pass
Carbon Monoxide	5000	64±1	(25±1) °C and 20.7g/m ³ of moisture content	S	200	Pass
Carbon Monoxide	7500	64±1	(25±1) °C and 20.7g/m ³ of moisture content	S	200	Pass
Carbon Monoxide	10000	64±1	(25±1) °C and 20.7g/m ³ of moisture content	S	200	Pass

¹: Time weighted average in any single 5 min period.



One Moonwalker Road
Frederica, DE 19946 USA
+1.302.335.3911
+1.800.631.9567
customer_service@ilcdover.com

www.ilcdover.com