

*the technology to protect in
hostile environments*



*NIOSH Approved
TC-14G-0277*

SCAPE[®]
CBRN³⁰

■ **Tested and Proven for UNPARALLELED Protection**

Protection factor testing was completed in accordance with NIOSH Laboratory Respiratory Protection Level (LRPL) test protocol. This test was conducted by the U.S. Army at the Edgewood Chemical Biological Center in Edgewood, Maryland.

Results of the testing demonstrate that extremely high levels of protection are provided by SCape® CBRN³⁰. An average fit factor¹ (FF) of 97,953 was achieved for the 60 test trials. 52 of the 60 trials had an FF of 100,000 or greater. The minimum FF measured was 66,143—far exceeding the NIOSH FF requirement of 2,000 or greater.

¹Fit Factor is defined as the ratio of the challenge concentration outside the hood to the concentration inside the hood.

■ **Approved by NIOSH**

Approved by NIOSH as a 30-minute General Category Escape Mask under the Standard for Chemical, Biological, Radiological and Nuclear (CBRN) Air-Purifying Escape Respirators (September 30, 2003)

NIOSH Approval Number TC-14G-0277



FEATURE

BENEFIT

Automatic Blower Actuation

Fool-proof operation. Blower automatically starts when hood is removed from case. User only has to put on the hood to be protected.

One Size

Eliminates logistical issues stemming from multiple sizes

No Nosecup or Mouthbit

Eliminates sizing difficulties. Dramatically improves communication—even with telephones, cell phones and other communication devices

Blower Indicator Light

Allows users (including hearing-impaired individuals) to determine that product is operating.

Comfortable Neck Seal

One size neck seal. Beards/glasses/long hair accommodated easily. Not possible with face seal mask. Very comfortable.

Clear Hood/ Large Visor

Allows user to perform a wide range of tasks including reading, driving, etc. Total facial recognition.

Quiet 64 LPM Blower

Delivers reliable protection with minimal training. Eases physiological burden on user. Reduces claustrophobic feelings associated with other hoods. Aids breathing for those with respiratory issues (e.g. asthma)

Exhaust Valve

The integral exhaust valve regulates/maintains positive pressure within the hood.

Filter Canister

Military grade canister provides protection against a range of military agents and NIOSH TRAs (filter data). HEPA filter provides biological/radiological/particulate protection.

Sealed Case

Five-year shelf life. Eliminates need to perform any operations (e.g. filter plug removal) after removing product from package.



FILTER DATA

All tests are conducted at 25°C
⁽¹⁾ TEST WAS STOPPED AT 60 MINUTES
⁽²⁾ "SMARTMAN" TEST

TEST AGENT	TEST CONCENTRATION	% RH	BREAKTHROUGH CONCENTRATION	NIOSH REQUIRED SERVICE LIFE (min)	ACTUAL SERVICE LIFE (min)
Ammonia	1250 ppm	25	25 ppm	30	>35
		80		30	>35
Cyanogen Chloride	150 ppm	25	2 ppm	30	>70
		80		30	>40
Sulfur Dioxide	750 ppm	25	5 ppm	30	>35
		80		30	>35
Cyclohexane	1300 ppm	25	10 ppm	30	>65
		80		30	>45
Formaldehyde	250 ppm	25	10 ppm	30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
Hydrogen Sulfide	500 ppm	25	30 ppm	30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
Nitrogen Dioxide	100 ppm	25	1 ppm NO ₂	30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
Phosgene	125 ppm	25	1.25 ppm	30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
Hydrogen Cyanide	470 ppm	50	10 ppm Sum of HCN and (CN) ₂	30	>60 ⁽¹⁾
		25		30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
Phosphine	150 ppm	25	0.5 ppm	30	>60 ⁽¹⁾
		80		30	>60 ⁽¹⁾
HD ⁽²⁾ Mustard Agent	50 mg/m ³ vapor & 25 drops liquid	Breathing Pump 40 lpm	0.6 mg/m ³ ct ≤ 6.0 mg-min/m ³	60	>60 ⁽¹⁾ _{min}
GB ⁽²⁾ Sarin	210 mg/m ³	Breathing Pump 40 lpm	0.087 mg/m ³ ct ≤ 0.9 mg-min/m ³	60	>60 ⁽¹⁾ _{min}
DOP Diocetyl Phthalate	160 mg/m ³	50% RH 85 lpm	0.03%	LOAD TO 200 mg	<0.005%

PANIC DEMAND

All tests performed at 100 lpm, 50% RH
⁽¹⁾ TEST WAS STOPPED AT 60 MINUTES

TEST AGENT	TEST CONCENTRATION (ppm)	BREAKTHROUGH CONCENTRATION (ppm)	NIOSH REQUIRED SERVICE LIFE (min)	ACTUAL SERVICE LIFE (min)
Ammonia	1250	25	5	>25
Cyanogen Chloride	150	2	5	>30
Sulfur Dioxide	750	5	5	>20
Cyclohexane	1300	10	5	>60 ⁽¹⁾
Formaldehyde	250	10	5	>60 ⁽¹⁾
Hydrogen Sulfide	500	30	5	>60 ⁽¹⁾
Nitrogen Dioxide	100	1 ppm NO ₂	5	>60 ⁽¹⁾
Phosgene	125	1.25	5	>60 ⁽¹⁾
Hydrogen Cyanide	470	10 Sum of HCN and (CN) ₂	5	>60 ⁽¹⁾
Phosphine	150	0.5	5	>60 ⁽¹⁾



SCAPE®
CBRN³⁰

PATENT 6,834,646
 EUROPEAN PATENT 1458448

- Automatic Actuation
- One Size
- 30-Minute Certification
- Minimal training required
- Easy to understand instructions

Immediate. Foolproof. Affordable. Comfortable.



Active in the design and development of products for both government and industry since 1947, ILC Dover consistently provides solutions to a dynamic and diverse customer base.

The technically advanced fabric and film solutions that ILC Dover creates become integral elements in some of the world's most exacting industries, including space exploration, pharmaceutical development and defense applications.



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creating what's next»



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