



**Superior protection
in hostile environments...**

Sentinel XL™ CBRN

*State-of-the-art high performance
systems designed as the ultimate in
chemical and biological protection*

**ILC Dover's protective equipment
leverages decades of experience
gained through designing and
producing NASA's space suits
and over 2 million military
masks.**



ILC DOVER
creating what's next»

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Superior Protection**Comfort****Value****Performance****Simplicity****Reliability**

Sentinel XL™

This state-of-the-art high performance PAPR is designed to meet the needs of first receivers and other first responders. The unit incorporates a unique "lay flat" butyl hood designed to stow neatly in a NIOSH approved backpack.

The system is also NIOSH approved in a belt mounted configuration. The blower delivers high flow rates and incorporates a low voltage alarm/light to alert the user when approximately 30 minutes of acceptable battery performance remains. (NIOSH CBRN Approved TC-23C-2312).

High performance features:

- ▶ 21st century design to meet 21st century threats
- ▶ Unique lay-flat butyl hood design
- ▶ Cap 2 NIOSH-approved loose fitting CBRN PAPR
- ▶ System is convertible to infectious disease applications through change of hood/hose and filters
- ▶ Low voltage alarm – flashing LED and continuous beep alert wearer
- ▶ NiMH batteries eliminate "memory effect" associated with NiCd batteries
- ▶ Field replaceable antimicrobial head strap
- ▶ Optional NIOSH approved backpack configuration allows for hands free deployment
- ▶ Rugged dual chamber blower design for increased durability
- ▶ System manufactured in the U.S.
- ▶ Latex Free
- ▶ And more....

A single state-of-the-art blower platform adaptable to multiple applications

- ▶ increases readiness
- ▶ more cost effective
- ▶ less storage area



CBRN Cap2
Conversion Kit

Easily convert Sentinel XL™ HP configuration to Sentinel XL™ CBRN

QUICK-LOC™ WAIST BELT

Quick-Loc™ attachment/release is quick and simple ▶ Low friction surface simplifies belt adjustment ▶ Click-n-Pull – no other adjustments necessary ▶ Accommodates up to a size 55" waist ▶ Readily wiped clean using standard disinfectants

**NO
fit testing
required!**

CBRN System



Simulant Agent Resistant Test Manikin (SMARTMAN) Headform shown with M40 mask .

CBRN PAPER Performance Data

HD SMARTMAN Testing

TN Test #	Date	Test Duration (min)	Max Peak Values (mg/m3)	Cumulative CT Values (mg-min/m3)	PASS/FAIL
HD-1	4/19/07	480.00		0.000	PASS
HD-2	4/23/07	480.00		0.00	PASS
HD-3	4/24/07	480.00		0.00	PASS

Live Agent Data in SMARTMAN Test Chamber

TN Test #	Date	Test Duration (min)	Max Peak Values (mg/m3)	Cumulative CT Values (mg min/m3)	PASS/FAIL
GB-1	4/19/07	480.00		0.000	PASS
GB-2	4/23/07	480.00		0.000	PASS
GB-3	4/24/07	480.00		0.002	PASS

Army Edgewood Chemical Biological Center's Mask Testing Group of the Protective Equipment Team (PET) conducts system agent testing on complete mask systems utilizing the Simulant Agent Resistant Test Manikin (SMARTMAN) Headform. They test Air Purifying Respirators, Self-Contained Breathing Apparatus, Powered Air Purifying Respirators and Escape Hoods.

The Sentinel XL™ CBRN was tested against HD and GB agents to the NIOSH CBRN PAPER standard.

Optional NIOSH approved backpack configuration allows for hands free deployment. Even if the hood and filters are not being used, your filtered air is always with you.

Our Cap 2 filters provide twice the filter performance of Cap 1 systems. Why trust your life to anything less?

For more information call 800.631.9567 (US Toll Free) or 302.335.3911 x506. Fax 302.335.1320

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Sentinel XL™ CBRN Filter Performance

Gas or Vapor	Test Concentration	Break-through Allowable (ppm)	Pre-Conditioning	Test Flow Rate	Observed Service Life (min)	Service Life Requirement (min)	Pass/Fail
Ammonia	1250	12.5	25% RH 80% RH	57 57	47.5, 52 >45	30	PASS
Cyanogen Chloride	150	2	25% RH 80% RH	57 57	>60 >60	30	PASS
Cyclohexane	1300	10	25% RH 80% RH	57 57	>60 55, >60	30	PASS
Formaldehyde	250	1	25% RH 80% RH	57 57	>60 >60	30	PASS
Hydrogen Cyanide	470	4.7*	25% RH 80% RH	57 57	>60 >60	30	PASS
Hydrogen Sulfide	500	5	25% RH 80% RH	57 57	>60 >60	30	PASS
Nitrogen Dioxide	100	1 ppm NO ₂ or 25 ppm NO	25% RH 80% RH	57 57	>60 >60	30	PASS
Phosgene	125	1.25	25% RH 80% RH	57 57	>60 >60	30	PASS
Phosphine	150	.30	25% RH 80% RH	57 57	>60 >60	30	PASS
Sulfur Dioxide	750	5.00	25% RH 80% RH	57 57	43, 56 >45	30	PASS

* Sum of HCN and C₂N₂

Available Now!



The Alkaline Battery Pack comes with 5 "D" size Duracell® Batteries and can be used with either the Sentinel CBRN or Sentinel HP systems and is designed to function with existing fielded units or newly purchased systems.

ILC Dover has been "creating what's next" for over 60 years.

To "create what's next" ILC Dover listens to its customers. Our skilled engineering staff, building on years of experience with NASA, military, and commercial customers, translates those needs into high performance products. We look forward to hearing from you so we can continue to "create what's next".



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