

ICG — IMPROVED CHEMICAL GARMENT



MULTI-THREAT PROTECTION. MULTI-WEAR GARMENT.

The ICG (Improved Chemical Garment) CBRN ensemble is a one-piece, top-entry suit designed to protect against some of the world's worst chemical and biological threats. The ICG allows for easier doffing while providing advanced protection you can count on when facing the unknown.

The ICG combines rugged GORE® CHEMPAK® Ultra Barrier Fabric laminated to a tough Nomex® outer textile to offer lightweight and comfortable multi-wear, multi-threat protection. Developed with the U.S. Department of Defense's Technical Support Working Group, the ICG blocks out high levels of CBRN agents that may be encountered in the "hot zone". Certified to NFPA 1994, Class 2 and NFPA 1992.





ICG SPECIFICATIONS

Certification:	NFPA 1994, Class 2 and NFPA 1992
Zone:	Hot
Garment design:	1-piece, top-entry
Respiratory system:	Contact Lion at CBRN@lionapparel.com for options
Hand protection system:	GORE™ G9492 glove system with GORE® CHEMPAK® Ultra Barrier Fabric worn under Nomex® outer glove
Foot protection system:	Integrated bootie with GORE® CHEMPAK® Ultra Barrier Fabric; OnGuard HAZMAX® boot
Barrier technology:	GORE® CHEMPAK® Ultra Barrier Fabric
Storage life:	Up to 10 years
Multi-use:	Yes, if not damaged, exposed or contaminated
Training suit available:	Yes

- Provides vapor, liquid and limited FR protection against CBRN agents to military, law enforcement and fire service
- Top-entry design with removable hood for ease of doffing
- Certified to NFPA 1994, Class 2 and NFPA 1992 for hot zone operations

FEATURES

- Guards against exposure to hazardous waste, drug labs, biological threats, and domestic terrorism agents
- Durable GORE® CHEMPAK® Ultra Barrier Fabric provides protection above IDLH concentration levels against TICs and CWAs while performing tactical operations
- Lightweight, streamlined design delivers optimum comfort and natural freedom of movement
- Rugged construction allows you to perform in the most challenging of circumstances
- Re-usable for multiple wears and washings, if not exposed or contaminated
- Certified for use with GORE™ G9492 glove system and OnGuard HAZMAX® 87012 boots

APPLICATIONS

- Technical rescue
- Contaminated rescue
- Decon
- SWAT
- HAZMAT
- Confined Space Rescue
- Explosives Ordnance Disposal

CERTIFIED PROTECTION IN CB HOT ZONE ENVIRONMENTS

NFPA 1994, Class 2 Ensemble Overall Function & Integrity Man in Simulant Test (MIST)	Systemic Physiological Protective Dosage Factor (PPDF _{sys})	Requirement	ICG Results
		≥ 361 PPDF _{sys}	≥ 1721 PPDF _{sys}

BARRIER PERFORMANCE

Material Performance	Requirement	GORE® CHEMPAK® Ultra Barrier Fabric "Multi-Threat" Typical Results
Burst Strength	≥ 35 lbf	≥ 310 lbf
Seam Break Strength	≥ 15 lbf/2 in	≥ 190 lbf/2 in

Chemical Permeation Chemical Warfare Agents	Max Level	Requirement	GORE® CHEMPAK® Ultra Barrier Fabric "Multi-Threat" Typical Results
Mustard (HD)	< 4.0 µg/cm ²	60 min	> 720 min
Soman (GD)	< 1.25 µg/cm ²	60 min	> 720 min
Toxic Industrial Chemicals			
Dimethyl Sulfate (DMS)	< 6 µg/cm ²	60 min	> 480 min
Acrolein	< 6 µg/cm ²	60 min	> 480 min
Ammonia (NH ₃)	< 6 µg/cm ²	60 min	> 480 min
Chlorine (Cl ₂)	< 6 µg/cm ²	60 min	> 480 min
Acrylonitrile	< 6 µg/cm ²	60 min	> 480 min

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NOTE: Additional chemical test results are available upon request.

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WARNING: Never wear the garment without the correct respirator, footwear, gloves, hood or belt; never wear the Garment without all elements in place. The garment alone does not provide protection against all chemical and biological hazards. CBRN ensembles provide limited protection against flame. CBRN ensembles provide limited protection against, abrasion, puncture, bodily fluids, other liquids and gases. No products, including garments, footwear or handwear, can offer absolute protection, even when new, and their protective performance will decline with wear, tear, abrasion, and other damage associated with use. W. L. Gore & Associates, Inc. and Lion Apparel, Inc. make no guarantee of how the product will perform in actual use.

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Chempak®
FABRIC



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