

ERS — EXTENDED RESPONSE SUIT



EXTENDED RESPONSE. EXTREME DEXTERITY.

The ERS (Extended Response Suit) is designed with maximum comfort and protection in mind. The one-piece, front-entry suit is easily stowed in a vehicle to facilitate the most immediate deployment possible and can be worn for an extended period of time.

The ERS is made with lightweight GORE® CHEMPAK® Selectively Permeable Fabric and is certified for “warm zone” operations where hazardous chemical and biological agents are anticipated or identified. The ERS protects against lower levels of vapor and liquid concentrations that may be encountered in the “warm zone” when deployed with the proper ensemble elements. Certified to NFPA 1994, Class 3.





- Value-added features deliver maximum dexterity and highest protection factor for Class 3 ensembles
- One-piece, lightweight design easily compacts for storage
- Certified to NFPA 1994, Class 3 for warm zone operations

FEATURES

- GORE™ G9492 glove system with Nomex® outer glove resists tearing and allows for added dexterity
- Air-tight zipper provides premium vapor and liquid protection
- Durable GORE® CHEMPAK® Selectively Permeable Fabric provides protection below IDLH concentration levels against TICs and CWAs while performing tactical operations
- Sleek, one-piece, lightweight design
- Front-entry design for ease of donning
- Fully sealed seams eliminates need for taping
- 8-hour wear life if not damaged, exposed or contaminated

APPLICATIONS

- Perimeter security and crowd control
- Extended decontamination
- Patient processing

ERS SPECIFICATIONS

Certification:	NFPA 1994, Class 3
Zone:	Warm
Systemic Physiological Protective Dosage Factor (PPDF _{sys}):	6346 PPDF _{sys} (average)
Garment design:	1-piece, front-entry
Respiratory system:	Contact LION at CBRN@lionprotects.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® Selectively Permeable fabric; OnGuard HAZMAX® boot
Barrier technology:	GORE® CHEMPAK® Selectively Permeable Fabric
Storage life:	Up to 10 years
Multi-use:	Yes, 8-hour wear life if not damaged, exposed or contaminated
Training suit available:	Yes

BARRIER CHEMICAL PERMEATION PERFORMANCE

GORE® CHEMPAK® Selectively Permeable Fabrics as used in ERS Suit

Challenge Chemical	Challenge Level	Endpoint µg/cm ²	8 Hour Cumulative Results
Acrolein	40 ppm	6	< .01 µg/cm ²
Acrylonitrile	40 ppm	6	non-detect
Ammonia	40 ppm	6	non-detect
Chlorine	40 ppm	6	< .02 µg/cm ²
Cyanogen Chloride	40 ppm	6	non-detect
Dimethyl Sulfate	10 g/m ²	6	non-detect
Hydrogen Cyanide	40 ppm	6	non-detect
Mustard (HD)	10 g/m ²	4	< 0.2 µg/cm ²
Phosgene	40 ppm	6	non-detect
Sarin (GB)	10 g/m ²	1.25	< .02 µg/cm ²
Soman (GD)	10 g/m ²	1.25	< .01 µg/cm ²
Tabun (GA)	10 g/m ²	1.25	< .01 µg/cm ²
VX	10 g/m ²	1.25	< 0.3 µg/cm ²

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DuPont™
NOMEX



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MT94 — MULTI-THREAT GARMENT



MAXIMUM PROTECTION. UNCOMPROMISED MOBILITY.

The MT94 (Multi-Threat) CBRN ensemble is a one-piece, rear-entry suit designed to protect against some of the world's worst chemical and biological threats. With models designed specifically for law enforcement, fire, EOD and military use, the MT94 offers first responders advanced protection when facing the unknown.

The MT94 combines rugged GORE® CHEMPAK® Ultra Barrier Fabric laminated to a tough Nomex® outer textile to offer lightweight and comfortable multi-wear, multi-threat protection. Providing the highest level of protection in a Class 2 suit, the MT94 helps block out high levels of CBRN agents that may be encountered in the "hot zone". Certified to NFPA 1994, Class 2 and NFPA 1992.





- Provides vapor, liquid and limited FR protection against CBRN agents to law enforcement, fire service, EMS and military
- Streamlined design combines durability, mobility and comfort
- 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

MT94 SPECIFICATIONS

Certification:	NFPA 1994, Class 2 and NFPA 1992
Zone:	Hot
Garment design:	1-piece, rear-entry
Respiratory system:	Contact LION at CBRN@lionprotects.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

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	MT94 Results
		≥ 361 PPDF _{sys}	≥ 4932 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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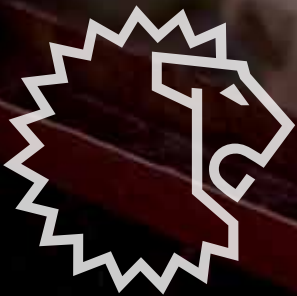
ICG — IMPROVED CHEMICAL GARMENT



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@lionprotects.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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MIGZ3 — MASS INCIDENT GARMENT



DISCREET PROTECTION. MAXIMUM UTILITY.

The MIGZ3 (Mass Incident Garment) is a two-piece, coat-and-pant combo that integrates with standard duty gear and enables first responders to operate discreetly while providing complete mobility and advanced chem-bio protection. The suit is designed specifically for law enforcement in perimeter control scenarios and counter-terrorism efforts at high-profile events.

The MIGZ3 is made with lightweight GORE® CHEMPAK® Selectively Permeable Fabric and is certified for “warm zone” operations where hazardous chemical and biological agents are anticipated or identified. The MIGZ3 protects against lower levels of vapor and liquid concentrations that may be encountered in the “warm zone” when deployed with the proper ensemble elements. Certified to NFPA 1994, Class 3.





- **Designed to integrate with existing duty gear**
- **Sleek outerwear design combined with breathable comfort**
- **Certified to NFPA 1994, Class 3 for warm zone operations**

FEATURES

- Vapor skirt (patent pending) and integrated belt for improved vapor protection
- Velcro marking tabs to position identification badges
- Durable GORE® CHEMPAK® Selectively Permeable Fabric provides protection below IDLH concentration levels against TICs and CWAs while performing tactical operations
- Sleek, parka-style outerwear design for discreet presence
- Attached GORE® CHEMPAK® Selectively Permeable Fabric hood with stowable Nomex® outer hood
- Front-entry design for ease of donning
- Removable gloves and booties
- Multi-wear usage

APPLICATIONS

- Perimeter security and crowd control
- Counter-terrorism security
- Escape from contaminated environments
- Predeployed assets for high-risk event protection
- Discreet protection for high-profile targets

MIG33 SPECIFICATIONS

Certification:	NFPA 1994, Class 3
Zone:	Warm
Systemic Physiological Protective Dosage Factor (PPDF _{sys}):	4087 PPDF _{sys} (average)
Garment design:	2-piece coat and pant
Respiratory system:	Contact LION at CBRN@lionprotects.com for options
Hand protection system:	GORE™ G9492 glove system with GORE® CHEMPAK® Ultra Barrier Fabric worn under Nomex® outer glove
Foot protection system:	LION chem-bio sock with GORE® CHEMPAK® Selectively Permeable Fabric; leather lace-up tactical boot
Barrier technology:	GORE® CHEMPAK® Selectively Permeable Fabric
Storage life:	Up to 10 years
Multi-use:	Yes, if not damaged, exposed or contaminated
Training suit available:	Yes

BARRIER CHEMICAL PERMEATION PERFORMANCE

as per NFPA 1994, Class 3 Requirements

Challenge Chemical	Requirement <small>*Based on 60 min. cumulative results</small>	GORE® CHEMPAK® Selectively Permeable Fabric "MIRT" Typical Results
Acrolein	< 6.0 µg/cm ²	< 1.0 µg/cm ²
Acrylonitrile	< 6.0 µg/cm ²	< 1.0 µg/cm ²
Ammonia	< 6.0 µg/cm ²	< 1.0 µg/cm ²
Chlorine	< 6.0 µg/cm ²	< 1.0 µg/cm ²
Dimethyl Sulfate	< 6.0 µg/cm ²	< 1.0 µg/cm ²
Mustard (HD)	< 4.0 µg/cm ²	< 0.5 µg/cm ²
Soman (GD)	< 1.25 µg/cm ²	< 0.5 µg/cm ²

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BARRIER PHYSICAL PROPERTY PERFORMANCE

as per NFPA 1994, Class 3 Requirements

Material Performance	Requirement	GORE® CHEMPAK® Selectively Permeable Fabric "MIRT" Typical Results
Weight	n/a	260 g/m ²
Ball Burst	135 N	905 N
Puncture Propagation Tear	25 N	53 N (machine direction) 43 N (transverse direction)
Total Heat Loss	> 200 W/m ²	> 400 W/m ²
Dimensional Stability	n/a	-1.5% (machine direction) -1.0% (transverse direction)

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CERTIFIED PROTECTION. UNCERTAIN WORLD.

The CB-Xi™ combines LION's proven CBRN technology and industry-leading turnout design to guard against threats from terrorism incidents. It looks like regular turnout gear and has all the usual mobility and comfort of LION's Janesville turnouts, but delivers the added assurance of CBRN protection.

LION's CB-Xi™ positions the CBRN barrier deep within its unique Shadowbox™ composite to offer the very best chance for continuing protection. The CBRN protection in the ensemble is always with you and ready to help you escape at the first sign of a CBRN incident. Certified to NFPA 1971, CBRN option.





CB-XIT™ SPECIFICATIONS

Certification:	NFPA 1971, CBRN option
Zone:	Escape from hot zone
Garment design:	V-Force® coat and pants
Respiratory system:	Contact LION at CBRN@lionprotects.com for options
Hand protection system:	GORE™ G9492 glove system with GORE® CHEMPAK® Selectively Permeable Moisture Barrier Fabric
Foot protection system:	STC Commander
Barrier technology:	GORE® CHEMPAK® Selectively Permeable Moisture Barrier Fabric
Multi-use:	Yes, if not damaged, exposed or contaminated

- **First and only* CBRN turnout certified to the NFPA 1971, CBRN option.**
- **Combines LION's proven CBRN technology with industry leading turnout design to guard against threats from terrorism incidents.**
- **Buys the time to escape the hot zone whether firefighters are facing the dangers of exposure to sarin, anthrax or even nuclear particulates.**

CERTIFIED PROTECTION IN CB HOT ZONE ENVIRONMENTS

NFPA 1971, CBRN Option	Requirement	ICG Results
Overall Function & Integrity Man in Simulant Test (MIST)	Systemic Physiological Protective Dosage Factor (PPDF _{sys})	
	≥ 361 PPDF _{sys}	≥ 601 PPDF _{sys}

BARRIER PERMEATION PERFORMANCE

As per NFPA 1971 CB Option. After extensive preconditioning as required by the Standard

Challenge Chemical/Agent	Requirement (average cumulative permeation in 1 hour, in µg/cm ²)	GORE® CHEMPAK® Selectively Permeable Fabric "CB Turnout" Typical Results (µg/cm ²)
Acrolein	< 6.0 µg/cm ²	non-detect
Acrylonitrile	< 6.0 µg/cm ²	non-detect
Ammonia (NH ₃)	< 6.0 µg/cm ²	non-detect
Chlorine (Cl ₂)	< 6.0 µg/cm ²	< 0.04 µg/cm ²
Dimethyl Sulfate (DMS)	< 6.0 µg/cm ²	< 3.5 µg/cm ²
Mustard (HD)	< 4.0 µg/cm ²	< 2.8 µg/cm ²
Soman (GD)	< 1.25 µg/cm ²	< 0.5 µg/cm ²

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Note: Durability of barrier in actual field conditions has not been fully characterized. No products protect completely, even when new; their protective performance will decline with wear, tear, abrasion, and other damage associated with use.

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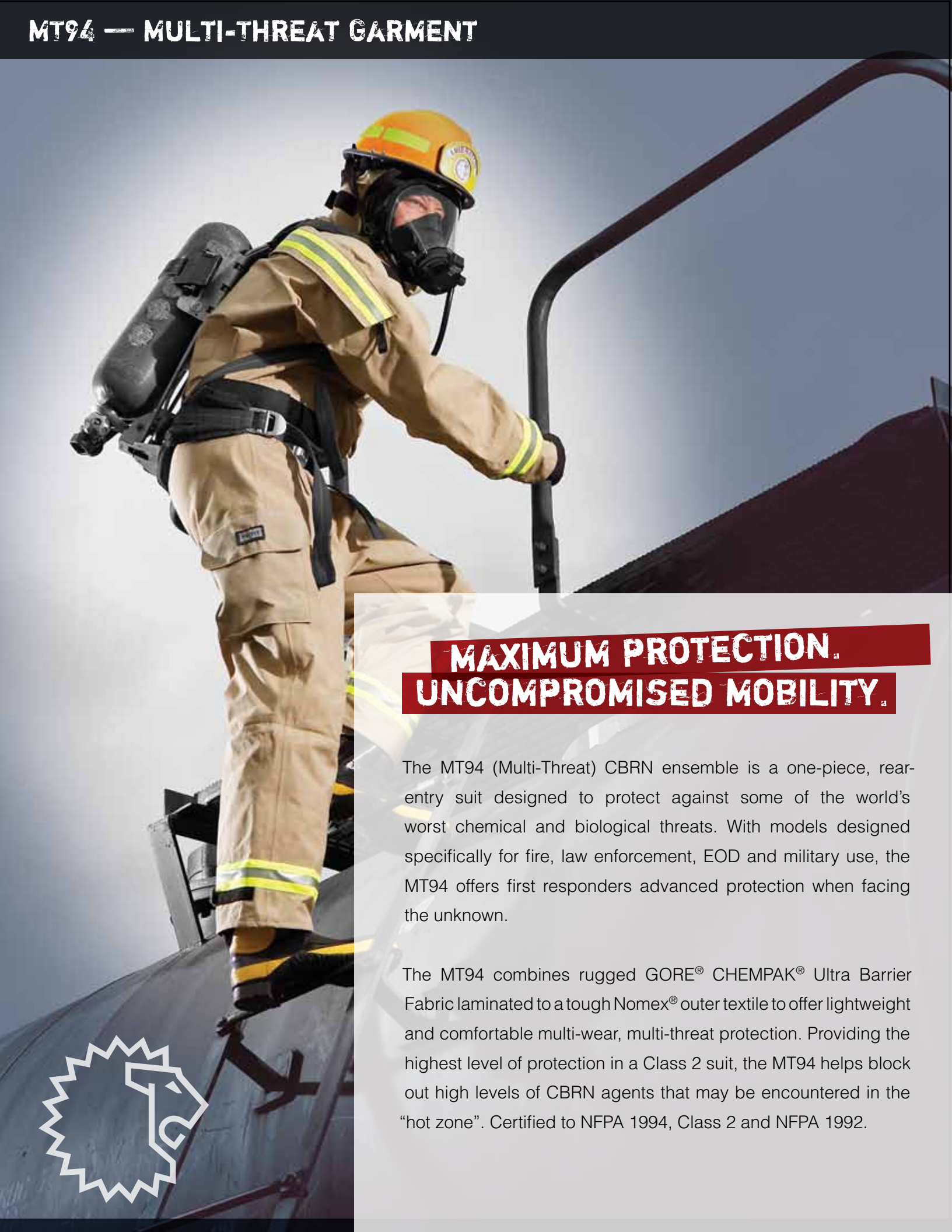


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FEATURES

- Janesville® V-Force® coat and pant design provides maximum comfort and mobility
- Incorporates LION's isodri® Protective System to wick sweat off the body, shed water, keep firefighter's working weight low.
- GORE® CHEMPAK® Selectively Permeable Moisture Barrier Fabric provides protection against liquid, aerosol, and vapor TICs and CWAs in order to escape from the hot zone.
- Coat and pants are constructed with an integrated lumbar/cinch straps to aid in vapor protection.
- Certified as an ensemble for use with hood, gloves, Paul Conway Helmets™ American Classic™ helmet, STC boots, and MSA CBRN SCBA.

MT94 — MULTI-THREAT GARMENT



MAXIMUM PROTECTION. UNCOMPROMISED MOBILITY.

The MT94 (Multi-Threat) CBRN ensemble is a one-piece, rear-entry suit designed to protect against some of the world's worst chemical and biological threats. With models designed specifically for fire, law enforcement, EOD and military use, the MT94 offers first responders advanced protection when facing the unknown.

The MT94 combines rugged GORE® CHEMPAK® Ultra Barrier Fabric laminated to a tough Nomex® outer textile to offer lightweight and comfortable multi-wear, multi-threat protection. Providing the highest level of protection in a Class 2 suit, the MT94 helps block out high levels of CBRN agents that may be encountered in the “hot zone”. Certified to NFPA 1994, Class 2 and NFPA 1992.





- Provides vapor, liquid and limited FR protection against CBRN agents to law enforcement, fire service, EMS and military
- Streamlined design combines durability, mobility and comfort
- 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

MT94 SPECIFICATIONS

Certification:	NFPA 1994, Class 2 and NFPA 1992
Zone:	Hot
Garment design:	1-piece, rear-entry
Respiratory system:	Contact LION at CBRN@lionprotects.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

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	MT94 Results
		≥ 361 PPDF _{sys}	≥ 4932 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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