



LION[®]

ready for action

MAXIMUM PERFORMANCE CHEMBIO GARMENTS

High-Performance CBRN PPE for Enhanced
Dexterity & Superior Protection

HAZARDOUS WASTE | BIOLOGICAL THREATS | DRUG LAB ENTRY

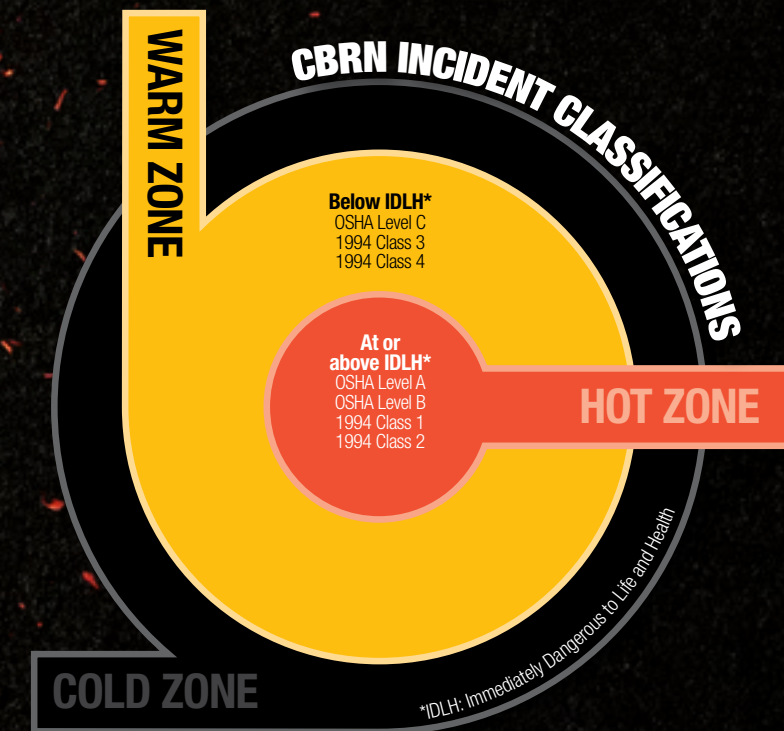
3-ZONE PROTECTION

PROTECTIVE CLOTHING YOU CAN USE AGAIN

Responding to chemical and bio-hazard incidents is often performed wearing disposable gear that is hot, humid, ill-fitting, and uncomfortable. LION's reusable NFPA-certified CBRN ensembles provide a better option to protect first responders against some of the world's worst chemical and biological threats.

LION CBRN garments are designed for comfort, mobility, and durability while meeting requirements for specific threat levels of hazard incidents. The MT94 (Multi-Threat) CBRN Ensemble is even NFPA Class 1 certified, which is equivalent to Level A protection.

Respond to hazardous waste, drug labs, biological threats and domestic terrorism agents in comfortable LION CBRN garments.



LIMITED PROTECTION AGAINST CBRN THREATS

LION CBRN ensembles are rigorously tested for protection against various chemicals and biological threats. These tests evaluate the penetration and permeation resistance for complete ensembles to chemicals and chemical vapors.

COVERAGE ZONES

LION offers CBRN ensembles in multiple NFPA Certifications for Hot and Warm zone classifications, as well as non-certified suits and training garments for Cold zones. Each suit is designed to meet the needs of the zone, depending on type of type of chemical or liquid hazard to which an emergency responder may be exposed and the concentration of those chemicals.



CALL 1.800.421.2926

MT94 IS LEVEL A

LION's MT94™ NFPA 1994 Class 1 certified ensemble is Level A equivalent, even without total encapsulation. This is because Level A is defined by the performance the ensemble has to protect the responders skin from exposure to hazards, not total encapsulation.

Less than 5% of hazmat calls require full encapsulation, (less than 1% according to FDNY), making MT94 a better, safer solution for most calls than hot and cumbersome fully encapsulated suits. LION's MT94 garments help increase responder safety and effectiveness by allowing longer performance on scene and more removals per person when using operationally appropriate PPE.

MT94's advantages:

- ▶ Reduced don / doff time
- ▶ Reduced load
- ▶ Reduced heat stress
- ▶ Increased vision, no fogging
- ▶ Increased mobility and range of motion
- ▶ Increased glove dexterity

Learn more at <https://rethinklevela.com>

RETHINK LEVEL A
ASSESS. SELECT. DEPLOY.

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MULTI-THREAT PROTECTION

The MT94 combines durability, mobility and comfort to meet the varied demands of law enforcement, fire, EOD and military.

BENEFITS

- ▶ One-piece suit with front or rear entry design for easy donning and fast response
- ▶ High strength, water absorbing fabric provides maximum protection, is flame resistant, and promotes conductive heat loss to reduce heat stress
- ▶ Form-fitting, lightweight design enables more tactical maneuverability and comfortable wear
- ▶ Certified with a variety of face pieces and boots for a wide range of versatility (ask for the current listing)



CALL 1.800.421.2926



MT94™ GARMENT



MT94 GARMENT SPECIFICATIONS			
Zone:	Limited Hot Zone Protection Protects against TICs and CWAs in liquid, vapor, and particulate form for levels above Immediately Dangerous to Life and Health (IDLH) concentration		
Certification:	Certified to NFPA 1994, Class 1, Class 2 and NFPA 1992 Class 1 is Level A equivalent		
Dosage Factor:	Average PPDFsys 1,100 – 1,300		
Nerve Agent Test Data*	4th Gen Agent	Results	
	Multi-Threat Fabric	A-234	Pass
		A-230	Pass
		A-232	Pass
G9492 Glove	A-230	Pass	
Barrier Technology:	CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Hand Protection:	G9492™ glove system with CHEMPAK® ultra barrier glove liners by GORE-TEX® Labs worn under Nomex® outer glove		
Foot Protection:	Integrated bootie with CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Usage:	10 wears/2 washes if not damaged, exposed or contaminated*		
Storage:	Up to 10 years		
Applications:	<ul style="list-style-type: none"> ▶ SWAT ▶ HAZMAT ▶ Explosives ordnance disposal 	<ul style="list-style-type: none"> ▶ Technical rescue in contaminated environment ▶ WMD or terrorist incident 	

* 24 hour permeation, LVAP method, 10g/m₂ challenge density

BARRIER CHEMICAL PERMEATION GUIDE

This information is intended to provide guidance to those with technical ability to evaluate the applicability of this data to the specific hazards for their end-use application. The user has the responsibility to determine the proper protective equipment needed for their actual conditions of use.

Challenge Chemical	MT94™ – Time to Breakthrough (minutes)
Acetone	>480
Acrolein ⁽¹⁾	>480
Acrylonitrile ⁽¹⁾	>480
Ammonia	>480
Benzyl Chloride	>480
Carbonyl Chloride (CG) ^(2, 6)	>390
Chlorine ⁽²⁾	>480
Chloroform	>480
Cyanogen Chloride (CK) ^(2, 6)	>450
Dimethyl Sulfate (DMS) ⁽³⁾	>480
Ethyl Ether	>480
Hexane	>480
Hydrogen Fluoride, HF (Gas)	43
Hydrofluoric Acid (48%)	>480
Hydrochloric Acid (37%)	>480
Hydrogen Chloride (Gas)	>480
Hydrogen Cyanide (HCN) ⁽²⁾	>480
Hydrogen Peroxide (50%)	>480
Hydroiodic Acid (55%)	>480
Lewisite (L) ⁽⁴⁾	>720
Methanol	>480
Mustard (HD) ⁽⁴⁾	>720
Nitric Acid (70%)	>480
Sarin (GB) ⁽⁵⁾	>720
Sodium Hydroxide (50%)	>480
Soman (GD) ⁽⁵⁾	>720
Sulfuric Acid (98%)	>480
Thionyl Chloride	>480
Toluene	>480
V-Agent (VX) ⁽⁵⁾	>720

All data are based on ASTM F 739 Standard Test Method for Permeation of Liquids and Gases through Protective Clothing Materials under Conditions of Continuous Contact (chemical challenge 100% concentration and 0.1 µg/cm²/min breakthrough end point) except where modification is footnoted.
Industrial chemicals and chemical warfare agents are tested per method outlined in NFPA 1994 Standard on Protective Ensembles for First Responders to CBRN Terrorism Incidents, Class 2, Edition 2001 or 2007.
(1) Chemical challenge concentration 350 ppm and 6 µg/cm² breakthrough end point.
(2) Chemical challenge concentration 1000 ppm and 0.1 µg/cm²/min breakthrough end point.
(3) Chemical challenge concentration 10 g/m² and 0.1 µg/cm²/min breakthrough end point.
(4) Chemical challenge concentration 10 g/m² and 4 µg/cm² breakthrough end point.
(5) Chemical challenge concentration 10 g/m² and 1.25 µg/cm² breakthrough end point.
(6) Test stopped due to equipment limitation.
All permeation data presented are believed to be reliable. They are generated using swatches of fabric under controlled laboratory conditions by independent and accredited third-party laboratories.
The data in this guide are subject to revision as additional information and knowledge become available.

MT94™ GARMENT



CHEMPAK® ULTRA BARRIER FABRIC BY GORE-TEX® LABS

FRONT AND BACK ENTRY MODELS AVAILABLE

MOLLE WEBBING SYSTEM WITH PLAYBOOK (FRONT ENTRY)

TAKE-UPS INCLUDED ON THE HOOD, WRISTS, ANKLES AND WAIST

Rear View



FACE SEAL INTERFACES WITH MULTIPLE FACE PIECES AND SCBAS

■ Standard Features
■ Available on certain configurations

VELCRO PATCHES

MIC TAB

RADIO POCKET

BELT KEEPERS

REFLECTIVE TRIM

OUTER GLOVES INCLUDED

CARGO POCKETS ON THIGHS

AVAILABLE IN TAN OR NAVY

CERTIFIED WITH LION BY THOROGOOD™ BOOTS

MT94-R™ GARMENT

RUGGEDIZED MULTI-THREAT

The MT94-R includes a streamlined design for better mobility and improved interface with other equipment, making it ideal for law enforcement.

BENEFITS

- ▶ One piece, rear entry garment for easy donning and doffing
- ▶ Durable construction with lighter weight hood and torso fabric allowing better interface with equipment
- ▶ Simplified design for better fit, form, and function
- ▶ Certified with a variety of face pieces and boots for a wide range of versatility (ask for the current listing)

MT94-R GARMENT SPECIFICATIONS			
Zone:	Hot Zone Operations Protection against TIC's, TIM's and CWA's below IDLH concentration levels		
Certification:	Certified to NFPA 1994, Class 2R and NFPA 1992		
Dosage Factor:	Average PPDFsys 1,100 – 1,300		
Nerve Agent Test Data*	4th Gen Agent	A-234	Pass
		A-230	Pass
		A-232	Pass
	G9492 Glove	A-230	Pass
Barrier Technology:	CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Hand Protection:	G9492™ glove system with CHEMPAK® ultra barrier glove liners by GORE-TEX® Labs worn under Nomex® outer glove		
Foot Protection:	Integrated bootie with CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Usage:	10 wears/2 washes if not damaged, exposed or contaminated*		
Storage:	Up to 10 years		
Applications:	<ul style="list-style-type: none"> ▶ SWAT ▶ HAZMAT ▶ Explosives ordnance disposal 	<ul style="list-style-type: none"> ▶ Technical rescue in contaminated environment ▶ WMD or terrorist incident 	

* 24 hour permeation, LVAP method, 10g/m₂ challenge density

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MT94-R™ GARMENT



FACE SEAL INTERFACES WITH MULTIPLE FACE PIECES AND SCBAS

VELCRO PATCH

AVAILABLE IN TAN OR NAVY

REAR ENTRY WITH ATTACHED HOOD

CHEMPAK® ULTRA BARRIER FABRIC BY GORE-TEX® LABS

BELT KEEPERS

HOOK AND LOOP WRIST CUFF ADJUSTMENT

CARGO POCKETS ON THIGHS

Rear View

ELASTIC CUFFS

CERTIFIED WITH LION BY THOROGOOD™ BOOTS

CONFORMABLE BOOTIES FIT COMFORTABLY IN BOOTS

EXTENDED RESPONSE WEAR

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.

BENEFITS

- ▶ One-Piece, front entry garment for easy donning and fast response
- ▶ Streamlined design for increased mobility and maximum dexterity
- ▶ Breathable selectively permeable membrane reduces heat stress and body stress for longer mission time.
- ▶ Certified with a variety of face pieces and boots for a wide range of versatility (ask for the current listing)

ERS GARMENT SPECIFICATIONS			
Zone:	Warm Zone Operations Protection against TIC's, TIM's and CWA's below IDLH concentration levels and emerging pharmaceuticals		
Certification:	Certified to NFPA 1994, Class 3 and NFPA 1992		
Dosage Factor:	Average PPDFsys 926		
Nerve Agent Test Data*	4th Gen Agent		Results
	XRT Fabric	A-234	Pass
		A-230	Pass
		A-232	Pass
G9492 Glove	A-230	Pass	
Barrier Technology:	CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Hand Protection:	CHEMPAK® G 9492 glove by GORE-TEX LABS include an inner protective barrier and Nomex® flight-style over glove with leather palm		
Foot Protection:	Integrated bootie with CHEMPAK® Selectively permeable fabric by GORE-TEX® Lab		
Usage:	24 hour wear life/3 washes if not damaged, exposed, or contaminated*		
Storage:	Up to 10 years		
Applications:	▶ Perimeter security and control of CBRN environments	▶ Medical triage/First receiver for WMD and industrial accident victim	
	▶ Clandestine lab entry	▶ EMS response to infectious diseases	
	▶ Decontamination		
	▶ Force protection		

BARRIER CHEMICAL PERMEATION GUIDE

Challenge Chemical	Challenge Level	Endpoint µg/cm2	8-Hour Cumulative Results
Acrolein	40 ppm	6	Pass
Acrylonitrile	40 ppm	6	Pass
Ammonia	40 ppm	6	Pass
Chlorine	40 ppm	6	Pass
Cyanogen Chloride	40 ppm	6	Pass
Dimethy Sulfate	10 g/m ²	6	Pass
Hydrogen Cyanide	40 ppm	6	Pass
Mustard (HD)	40 ppm	6	Pass
Phosgene	40 ppm	6	Pass
Sarin (GB)	10 g/m ²	6	Pass
Soman (GD)	10 g/m ²	6	Pass
Tabun (GA)	10 g/m ²	6	Pass
V-Agent (VX)	10 g/m ²	6	Pass

All data are based on ASTM F 739 Standard Test Method for Permeation of Liquids and Gases through Protective Clothing Materials under Conditions of Continuous Contact (chemical challenge 100% concentration and 0.1 µg/cm²/min breakthrough end point) except where modification is footnoted.
Industrial chemicals and chemical warfare agents are tested per method outlined in NFPA 1994 Standard on Protective Ensembles for First Responders to CBRN Terrorism Incidents, Class 2, Edition 2001 or 2007.

* 24 hour permeation, LVAP method, 10g/m₂ challenge density

FACE SEAL INTERFACES WITH MULTIPLE FACE PIECES AND SCBAS

VELCRO PATCHES

MIC TAB

BELT KEEPERS

REFLECTIVE TRIM

OUTER GLOVES INCLUDED

CARGO POCKETS ON THIGHS

- Standard Features
- Available on certain configurations

CERTIFIED WITH LION BY THOROGOOD™ BOOTS IN ADDITION TO ONGUARD AND TINGLEY OPTIONS



FRONT ENTRY AND NON-CERTIFIED HOODLESS MODELS AVAILABLE

CHEMPAK® ULTRA BARRIER FABRIC BY GORE-TEX® LABS

Rear View



FRS GARMENT



FLOOD RESPONSE WEAR

The FRS is designed to keep out hazards that can be encountered in flood zones or stagnant water where wading is appropriate.

BENEFITS

- ▶ Non-certified, hoodless garment with integrated booties for Cold Zone protection.
- ▶ Aquaseal waterproof zipper, neoprene collar, and butyl wrist cuffs aid in keeping out hazards while Hi-Vis reinforcements, pockets, and trim aid in visibility in low-light missions.
- ▶ Lightweight one-piece suit with front-entry design for easy donning and fast response.
- ▶ Breathable selectively permeable membrane allows reduces heat stress and body stress for longer mission time

FRS GARMENT SPECIFICATIONS			
Zone:	Warm Zone Operations Protection against TIC's, TIM's and CWA's below IDLH concentration levels and emerging pharmaceuticals		
Certification:	Non-certified garment		
Dosage Factor:	Average PPDFsys 926		
Nerve Agent Test Data*	4th Gen Agent		Results
		XRT Fabric	A-234
	G9492 Glove	A-230	Pass
		A-232	Pass
Barrier Technology:	CHEMPAK® Ultra Barrier Fabric by GORE-TEX® Labs		
Other Protection:	Aquaseal water proof zipper, neoprene collar, and butyl cuffs		
Foot Protection:	Integrated bootie with CHEMPAK® Selectively permeable fabric by GORE-TEX® Lab		
Usage:	24 hour wear life/3 washes if not damaged, exposed, or contaminated*		
Storage:	Up to 10 years		
Applications:	▶ Stagnant water search and rescue	▶ Medical Triage / first receiver for stagnant water accident victims	
	▶ Escape from contaminated stagnant water environments	▶ Clean up (where no airborne contaminants)	

* 24 hour permeation, LVAP method, 10g/m₂ challenge density



FRS GARMENT



- HOODLESS DESIGN
- VELCRO PATCHES
- NEOPRENE COLLAR
- AQUASEAL ZIPPER
- ELBOW REINFORCEMENTS
- HOOK & LOOP TAKE-UPS
- REFLECTIVE TRIM
- HI-VIZ CARGO POCKET
- KNEE REINFORCEMENTS
- ELASTIC CUFFS AND AFFIXED BOOTIES
- FRONT ENTRY ONLY
- RADIO POCKET
- CHEMPAK® ULTRA BARRIER FABRIC BY GORE-TEX® LABS
- BUTYL WRIST CUFFS

Rear View





GET PREPARED WITH LION TRAINING SUITS

Responding effectively to emergencies requires practice, particularly in the case of stressful, strenuous and unpredictable HazMat and CBRN incidents.

The Training Suit was developed to provide realistic training for handling hazardous material emergencies. They have the exact form-fitting characteristics, look, and feel of LION's mission suits, without the protective properties.

- ▶ Offered in both four MT94 configurations as well as an ERS configuration.
- ▶ Aid in speeding up response time
- ▶ Ideal for practicing donning and doffing and for exercising under challenging conditions

Combine with LION training products and solutions, for complete familiarity with realistic and true-to-life equipment and events.

TRAINING SUIT SPECIFICATIONS		
Zone:	Cold Zone - For training only	
Certification:	Non-certified garment	
Available Suit Models:	Mission Model	Training Suit
	MT94 - Rear	CMTRN=71, CMTRNA=71
	MT94 - Front	CMTRNFE=71, CMTRNFEA=71
	ERS	CBTRERA=70
Applications:	<ul style="list-style-type: none"> ▶ Donning and doffing training ▶ Evacuation training ▶ Victim handling ▶ Breathing apparatus training (BA) ▶ BA reliance in stressful environment 	<ul style="list-style-type: none"> ▶ BA coordination training ▶ BA breathing crisis training ▶ BA use in confined spaces ▶ Man Down ▶ BA habituation

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HELLFIRE™ FELT INSULATED RUBBER BOOT

BENEFITS

- ▶ Flame/heat-resisting rubber
- ▶ Waterproof
- ▶ Removable Superknit covered, polyurethane footbed
- ▶ Steel triple-rib ladder shank
- ▶ Stainless steel puncture-resisting bottom plate
- ▶ Removable Superknit covered, polyurethane footbed
- ▶ HellFire traction Lug Sole
- ▶ Abrasion-resisting rubber T-toe
- ▶ Vulcanized construction
- ▶ Certified to meet NFPA 1971 structural and NFPA 1992 liquid splash
- ▶ CSA Z195-14 Edition-7



Available in whole and half sizes in 3 widths to ensure proper fit and comfort.

STYLE # 807-6003 MEN'S STYLE # 507-6003 WOMEN'S

Additional Certified Footwear that are approved for this ensemble:
 Thorogood Knockdown Elite - Model No.: 804-6389 or 504-6389
 Thorogood Hellfire Rubber-Kevlar - Model No.: 807-6000 or 507-6000
 OnGuard HazMax® Boot - Model No.: 87012
 Tingley HazProof® Boot - Model No.: 82330 (orange) or 82331 (black)

WATER-RESISTANT NYLON GEAR BAG

Designed with a variety of convenient storage compartments, this tough, multi-purpose bag makes it easy for you to carry along with you a CBRN ensemble (MT94™ or ERS), LION PPE or a change of clothes. Carry as a duffle or as a backpack.

Also available as a Drawstring Mesh Bag.



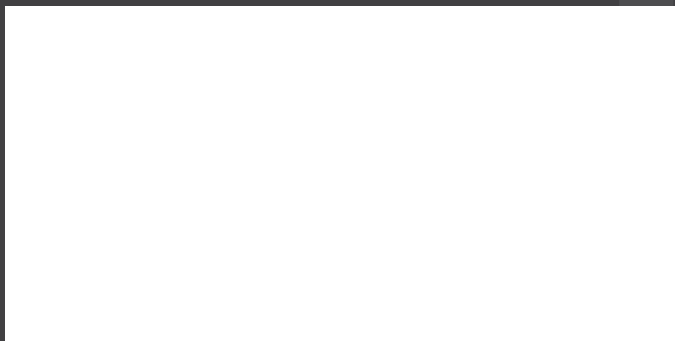
CALL 1.800.421.2926





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