



Starfield™

ready for action

**FIRST RESPONDER
PPE CATALOGUE**



FIREFIGHTING AND PUBLIC SAFETY RESPONSE WEAR™

Benefit from Starfield LION Quality Process

Throughout its history, Starfield LION has dedicated itself to providing quality products and services to its valued customers. Quality doesn't just happen by talking about it — it takes quality people using a quality process. The quality systems at Starfield LION have been registered by Quasar to the ISO 9001:2008 series standard.

A Real Commitment to Quality Products and Services

What does ISO 9001:2008 registration mean? ISO is short for the International Organization for Standardization. It promotes the development of standards, testing and certification to encourage the real commitment to quality products and services. In order for a company to become registered as an ISO 9001:2008-compliant firm, it must pass a strict evaluation of its product development, manufacturing, quality and documentation processes by a qualified independent third-party registrar. Registration certifies compliance to the quality process based on observed evidence as opposed to the performance testing of a garment. The audits are rigorous, inflexible and are conducted on a "follow-up" inspection basis, as well.

Consistency and Reliability in Every Step

ISO 9001:2008 registration is proof-positive that Starfield LION is committed to continuous improvement of all procedures relating to meeting customer expectations. The process requires Starfield LION to formalize and document each and every step by which they design and manufacture protective clothing and the processes used to respond to complaints, questions, suggestions and ... of course ... the occasional error. The result is consistency and reliability in every step of the manufacturing process of protective clothing. Each garment is cut and sewn the same way and the customer gets the same product regardless of who performed the work.

Responsive to Customer Concerns

Because it covers the design process, ISO 9001:2008 is a stringent registration. It requires the manufacturer to listen to customer feedback and take action. Starfield LION has a Quality Review Board that meets regularly to formally review customer feedback. A team member is assigned the responsibility of investigating the concern or suggestion from a customer and recommending a course of corrective action.

The process also requires Starfield LION's suppliers to be accountable by documenting their quality criteria and the corrective actions taken in case a material or product fails the criteria.

ISO 9001:2008
Registered Firm



File No. Q102244

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SAFETY & COMFORT-FOCUSED

INNOVATION

Starfield LION has a legacy and ongoing history of introducing new products and services — always designed to ensure the health, safety and performance of the first responders who serve our communities and our country. Starfield LION's game-changing PPE innovations are designed to best prepare firefighters, EMS teams and law enforcement officers for the dangers and hazards they face each day. For decades, Starfield LION has been the industry leader in the fight against firefighter stress by incorporating innovative design features and materials to deliver the most natural, least restrictive movement possible. We have secured multiple patents for material application, moisture management, garment and helmet designs. As we continue to develop new and enhance existing PPE products and services, our primary goal remains the same: To keep you safe and always....**ready for action.**

Game-changing PPE innovations designed to best prepare first responders for the dangers and hazards they face on their jobs each day.

Starfield LION's game-changing PPE innovations include:

- **IsoDri® Moisture Management System**, engineered to reduce water inside the turnout system and, therefore, the heat storage capacity.
- **Starfield LION's Ventilated Trim™**, provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture without adding additional weight to the garment.
- **Mobility Design System** reduces firefighter stress through a series of innovative, ergonomic features that help deliver exceptional comfort and mobility.
- **SemperDri™ Systems**, which reduces absorption in key areas, keeping garments drier and working weight lighter.
- **Lite-N-Dri™** closed-cell foam padding in turnout garments to add thermal protection to high-compression, high-risk areas.

INNOVATION SPOTLIGHT:

STARFIELD LION ISODRI® Moisture Management System

Firefighters wearing gear with IsoDri report their gear has been dry and comfortable in less than 30 minutes.



Watch the video at lionprotects.com/content/isodri

When you're wearing SCBA and dragging a fully charged 1 3/4" hose line, the last thing you need is your gear sucking up water and adding more weight to what you're already lugging around.

And, how many times have you had to work in wet, clammy turnout gear because it hadn't dried from an earlier run? Starfield LION innovated, and continues to lead, with game-changing moisture management systems designed for turnouts. Starfield LION's patented IsoDri Moisture Management System fights the proven problems of wet turnout gear by delivering a superior solution.

Each IsoDri component is engineered to reduce the water intake and transport moisture away from the body. This reduces the heat storage capacity and working weight, promoting both comfort and safety of your turnout gear.

Unlike conventional turnouts, keeping moisture out of the protective envelope takes place in ALL layers of the IsoDri

system – the outer shell, moisture barrier and thermal liner. If it doesn't have these, it isn't the IsoDri system:

- **Thermal liner that reduces moisture regain from sweat and other water sources.**
- **High-lubricity face cloth that wicks perspiration away from the body**
- **SemperDri® in lower legs to reduce absorption**
- **Wristlets treated with Teflon® F to repel moisture from outside sources**

The key difference between IsoDri and other systems is IsoDri's ability to manage moisture in the thermal barrier of your gear. The thermal liner traps air inside of millions of tiny pockets. This trapped air creates a barrier to heat flow. But, if the

air pockets are compressed or filled with moisture, the thermal liner's ability to block heat is compromised.

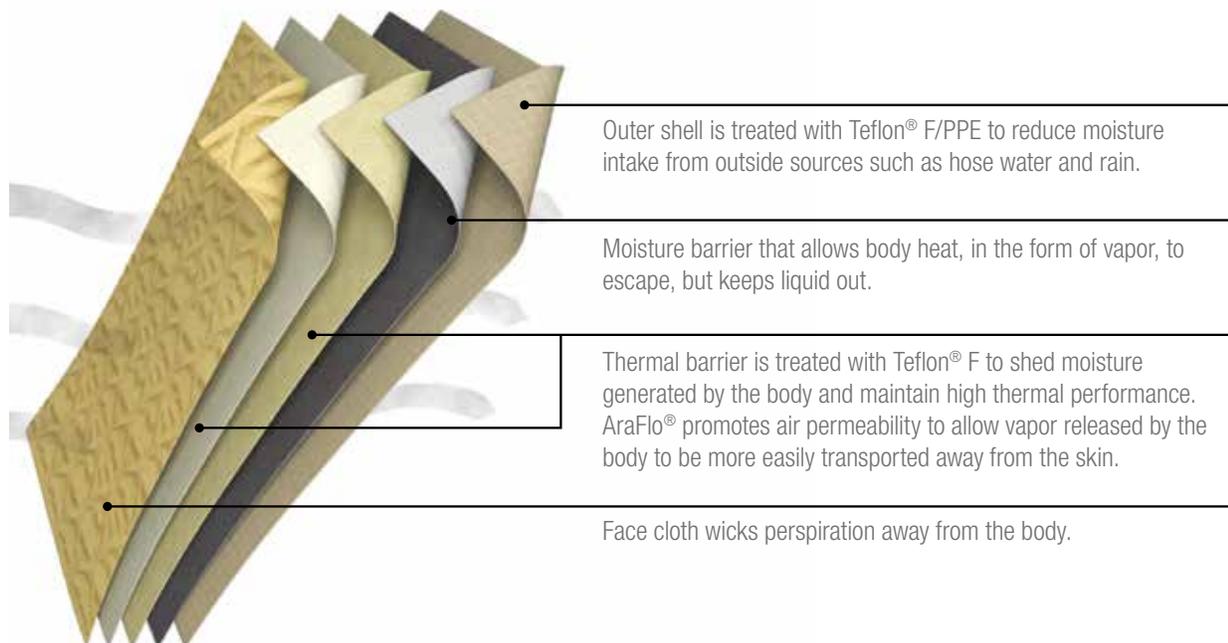
Optimum moisture management comes from a thermal liner that both wicks and sheds water. IsoDri features a face cloth with advanced wicking technology.

By pulling sweat from undergarments, the moisture is channeled away from the body toward layers of the liner system that refuse to draw in moisture. This allows the thermal barrier to maintain airspace and function properly.

In addition, IsoDri thermal liners using apertured AraFlo® promote higher air permeability than other systems and complement state-of-the-art moisture barriers such as CROSSTECH®.

HOW IsoDri WORKS

IsoDri is more than just an outer shell that resists water penetration and absorption. It is a complete system of components (outer shell, moisture barrier, thermal barrier and wristlets) that works together to reduce the water in your turnout gear and the dangers that water presents.



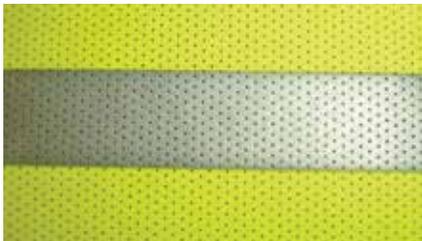
INNOVATION SPOTLIGHT:

STARFIELD LION VENTILATED TRIM™ Reflective Material

PPE Reflective Material Enhances Firefighter Safety

The purpose of trim on turnouts, helmets, boots and other emergency garments is to make the firefighter or medic more visible in both low light and daylight conditions. NFPA 1971 requires reflective material be both retroreflective and fluorescent. Retroreflectivity occurs when light is reflected off a surface and returns to its original source. Fluorescence is the “glow” generated by an object that has absorbed light. It greatly increases daytime visibility.

3M™ Scotchlite™ Reflective Material



3M Scotchlite Reflective Material is comprised of millions of tiny, almost round microspheres. Half of each sphere has a mirror coating. When light hits a microsphere, it is refracted through the surface and sent back out toward the light source. 3M Scotchlite Reflective Material is more durable and holds up well to heat in comparison to other trim. However, 3M Scotchlite Reflective Material does tend to lose some of its retroreflective effectiveness when wet.

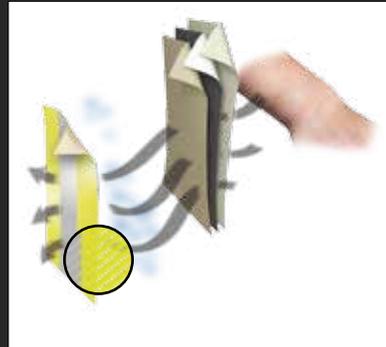
3M Scotchlite Reflective Material is available in what is often referred to as “triple-trim”, which is two bands of fluorescent red-orange or lime-yellow with a band of reflective silver in between.

Oralite® Reflective Material



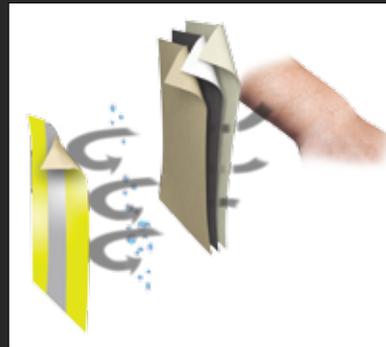
Oralite Reflective Material is vinyl cube-corner prism sheeting with microprismatic optical elements protected by a smooth outer surface. It has excellent retroreflective properties, even when wet. It is available in fluorescent lime-yellow.

Ventilated Trim



The perforations on Ventilated Trim provide a conduit for vapor away from the firefighter's body.

Impermeable Trim



On impermeable trim, moisture can accumulate between the outer shell and trim. When the trim is compressed and heated, the trapped moisture can vaporize and transfer heat toward the firefighter's body.

Ventilated Trim Provides a Conduit For Vapor Release on Impermeable Reflective Materials

As vapor escapes your protective envelope, moisture can collect between the reflective trim and the outer shell of your turnout. When the trim is compressed and heated, the trapped moisture can vaporize and transfer heat toward the body. NFPA 1971 has added a Stored Energy Test to the 2013 Edition of the standard to address the phenomena of steam-related, stored energy burns.

Starfield LION Ventilated Trim is perforated to provide a conduit for the release of vapor and guard against the potential hazards of trapped moisture. These perforations eliminate the need for additional thermal enhancements to meet the Stored Energy Test, as they allow for the release of heat in the system.



Starfield[™]
ready for action

BUNKER GEAR



3M Scotchlite[™]
Reflective Material

DuPont[™]
Nomex

DuPont[™]
Kevlar

EVERY MOVE YOU MAKE: Game-Changing Safety & Comfort

Comfort isn't just a subjective opinion. Much of it is science and is quantifiable. Garment design, working weight and the ability to manage the moisture inside your protective envelope are all factors that contribute to the comfort of your bunker gear.

Water Inside Your Protective Envelope Increases Risk

When water collects in your bunker clothing, it gets heavier and uncomfortable. This increases stress. Water also displaces the insulating air in your thermal barrier. Once in your system, water can expand at an explosive rate, making you vulnerable to steam burns and serious injury.

Manage the Moisture in Your Bunker Gear with IsoDri® Technology

Starfield LION's exclusive IsoDri technology is an engineered system that manages moisture through a combination of materials that block outside sourced water, wick perspiration off the body and resist storing water inside the protective envelope. The insulating layers and outer shell of an IsoDri system are molecularly bonded with DuPont's Teflon® F to restrict the absorption of moisture and keep the protective layer of air intact. (Visit www.lionprotects.com, watch the video and learn why every firefighter deserves dry gear.)

No Compromises when it Comes to Safety

Starfield LION and cutting-edge safety are synonymous. For decades, Starfield LION has been the industry leader in the fight against firefighter stress by incorporating innovative design features and materials to deliver the most natural, least restrictive movement possible. We are the innovator of dozens of meaningful patents, including:

- IsoDri Moisture Management Systems
- Flame-resistant, closed-cell cushioning and reinforcements
- AraFlo® apertured thermal liners
- Starfield LION Ventilated Trim®



Starfield™



FLAME FIGHTER®



FLAME FIGHTER® Custom Bunker Gear:

Designed for Your Unique Needs

What works well for another department may not be the optimum solution for yours. You have unique needs and challenges. That's why Flame Fighter bunker gear offers a full range of custom features that allow you to build the coat and pants that will work best for your team.

Start with a Loaded Core Package

Flame Fighter's core package is already loaded with mobility enhancements and special features, including:

- Bellows underarm construction for a full range of motion
- Thermashield®— additional layer of liner material in the upper back and shoulders to protect against compression burns
- Stay Rite™ sleeve well — Integrates the sleeve's liner into a full-length wristlet with a reinforced thumbhole. When you reach, the entire sleeve moves with you
- Move-N-Hance™ crotch gusset that increases mobility by reducing bunching, twisting and pulling
- Flex Knee™ for easy, natural movement
- Stay Rite ankle storm wells that guard against steam, water and other debris from penetrating into your pants legs
- Drag Rescue Device — comfortable and easy to use
- Liner Inspection System — hook and loop sealed opening allows for complete liner inspection of coat and pants without opening seams
- Stepped Up cuff — reverse boot cut reduces length by one inch on back of pants cuff to reduce wear and tear

Customize the Design to Fit Your Challenges

Choose from a wide selection of:

- Outer shell fabrics, including DuPont™ Nomex®, DuPont Kevlar®/Nomex combinations and PBI®. DuPont Nomex and Kevlar brand fibres add strength, durability and thermal protection
- Liner systems and W.L. Gore moisture barriers
- Visibility options with 3M™ Scotchlite™ Reflective Material
- Mobility enhancements
- Pockets and hardware

Flame Fighter is certified to meet the current edition of NFPA 1971.



Flame Fighter® Coat Core Design Features



A Ergonomic Shoulder/Sleeve Design



B Stay Rite™ Sleeve Well



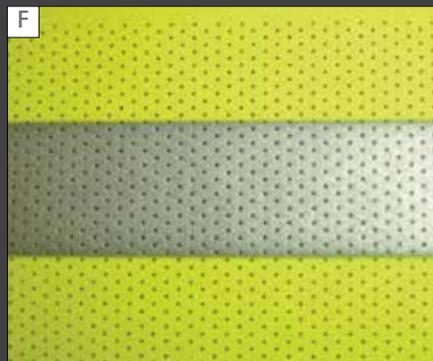
C Drag Rescue Device



D Semi-Bellows Pockets



E Medic Pocket



F Ventilated Trim

A. Ergonomic Shoulder/Sleeve

Bellows underarm construction, combined with sleeves shaped to the natural bend of your arm, enables a full range of shoulder and arm motion.

B. Stay Rite™ Sleeve Well

Integrates the sleeve's liner into a full-length wristlet with a reinforced thumbhole. When you reach, the entire sleeve moves with you. This keeps full protection on the wrist. Built-in water well system prevents water, steam and other debris from penetrating.

C. Drag Rescue Device

Built-in Drag Rescue Device (DRD) makes it easier to remove a downed firefighter from a hostile, life-threatening environment. Unnoticeable during normal firefighting operations, it is easily accessed through an opening on the back.

D. Semi-Bellows Pockets

Spacious semi-bellows coat pockets with reinforced bottom half.

E. Medic Pocket

Provides protection and storage for medical gloves.

F. Ventilated Trim

Our Ventilated Trim provides breathability to a traditionally impermeable component of your bunker gear.

Thermashield™ Reinforcement at Yoke

Upper back and shoulders have an additional layer of liner material padding to protect against compression from SCBA and provide additional comfort.

Liner Pockets

Spacious pocket on face cloth of liner with Handi-Pouch™ pocket above. Perfect for cell phones, notebooks or charge cards.

Elbow Padding

Impermeable moisture barrier reinforcement built into thermal liner at the elbows to guard against compression and steam burns.

Liner Inspection System

Hook and loop sealed opening allows you to easily examine film side of moisture barrier and inside of thermal liner without ripping seams.

Flame Fighter® Pants Core Design Features



A Parachute Suspender System



B Flex Knee™



C Stay Rite™ Ankle Storm Wells



D Kick Shields™



E Tool Key



F Move-N-Hance™ Crotch Insert

A. Parachute Suspender System

Fast and easy adjustment – just tug on the rings. Straps have two rows of reflective material for visibility with coat removed. Shoulder padding for enhanced comfort.

Suspender attachments feature straps firmly anchored into pants waist. Dome fastener closures eliminate the hassle of lost or damaged suspender buttons.

B. Flex Knee

Bunker pants are shaped in the liner and outer shell materials. Generous side pleats work in conjunction with the shaped knee for easy climbing, squatting and crawling. Impermeable layer of padding placed between moisture barrier and thermal liner.

C. Stay Rite Ankle Storm Wells

Elasticizer storm well is crafted into the pants liner to prevent steam, smoke, water and other debris from penetrating into the pants legs. Design also helps stop liner from lifting into boots when crawling or climbing.

D. Kick Shields

Lower section of the inside pants cuffs are reinforced with a strip of cuff material to guard against abrasion damage.

E. Tool Key

Multi-use hook built into pants.

F. Move-N-Hance Crotch Insert

Crotch gusset increases mobility and prevents binding and twisting during rigorous firefighting activities.

Stepped Up™ Cuff

Reverse boot cut reduces the length on the back of the pants cuffs by one inch to reduce wear and tear.

Liner Inspection System

Hook and loop sealed 12-inch opening allows you to easily examine film side of moisture barrier and inside of thermal liner without ripping seams.

Customized Flame Fighter® Bunker Gear Features



A Action Back Design



B Flashlight Clip and Strap



C Port-a-Plate



D Leg Zipper



E Winter Liner



F Reinforcements



G Elasticized Pants Cuff



H S-Series Shortened Front Hem



I S-Series Contoured Back Hem

A. Action Back Design

Inverted pleat is placed in both the outer shell and thermal barrier. It expands as your arms move forward to reduce tugging or binding at the shoulder.

B. Flashlight Clip and Strap

Metal hook attaches to the flashlight while the hook and loop strap at the bottom holds it in place – no swinging, no banging.

C. Port-a-Plate

Name patch attaches to hem of coat for quick identification and accountability.

D. Leg Zipper

Zipper closures at pants legs for fast and easy donning and doffing over boots.

E. Winter Liner

Removable vest attaches to coat's primary thermal liner to provide additional protection against extreme winter temperatures.

F. Reinforcements

Wide range of fabrics for reinforcements – leather, polymer-coated Kevlar® and self fabric.

G. Elasticized Pants Cuff

Elasticized thermal liner pants cuff (to help reduce the entry of hot air, smoke or debris up the pants leg).

H. Shortened Front Hem

Reduced coat bunching and greater mobility when in a crawling or crouching firefighting position.

I. Contoured Back Hem

Optimum back protection with enhanced mobility.

Flame Fighter® Pocket Options



A. Full Bellows Pocket



B. Full Split Bellows Pocket



C. 2-in-1 Pocket with Handwarmer



D. Hanging Pocket



E. Inner Storm Flap Pocket



F. Spanner Key Pocket



G. Tool Pocket



H. Quick-Draw Knife Tool Pocket



I. Radio Pocket

A. Full Bellows Pocket

9.5" wide, 9" tall and expands to 2" deep. Pocket flap with hook and loop closure.

B. Full Split Bellows Pocket

9.5" wide, 9" tall and 2" deep split pocket.

C. 2 in 1 Pocket with Handwarmer

9.5" x 9.5" pocket with flap and hook and loop closure. Has 6" side opening for hand warming.

D. Hanging Pocket

Pocket extends below the coat hem so it is accessible at all times, even when wearing SCBA harness.

E. Inner Storm Flap Pocket

Available as a single pocket or a pair. Conveniently located underneath coat storm flap.

F. Spanner Key Pocket

10" deep pocket houses spanner key. Tab with snap keeps the key secure.

G. Tool Pocket

3" wide x 5" high pocket sewn to the sleeve of the bunker coat for easy access. It has a 1" center pleat that makes it ideal to hold two small tools.

H. Quick-Draw Knife Tool Pocket

Pocket sewn onto bunker pants outseam at calf level for easy accessibility when crawling or positioned in a confined area.

I. Radio Pocket

Standard pocket dimensions are 7.25" long x 4" wide x 2" deep. Pocket flap can be made with an antennae notch on both sides or just on one side (either left or right). Flap can also be made with no antennae notch. Pocket can be placed at 22° angle.

S-SERIES™ Coat:

The Starfield LION™ coat that's doing more...with less.



With a shorter front hem and an ergonomically-contoured back hem, the S-Series coat offers additional mobility and comfort, while also retaining Flame Fighter's popular high-performance features.

S-Series Coat Benefits & Features

Combining additional mobility and comfort, while also retaining Flame Fighter's popular high-performance features.

- **Shortened front hem** for reduced coat bunching and greater mobility when in a crawling or crouching firefighting position
- **Contoured back hem** for optimum back protection with enhanced mobility
- **Drag Rescue Device (DRD)** is a built-in rescue strap that's easy to access, but out of the way when not needed
- **Four ergonomic pocket options** designed specifically to work in conjunction with the shorter coat front
- **LION Ventilated Trim™** that allows moisture vapor to escape, avoiding potential compression burns



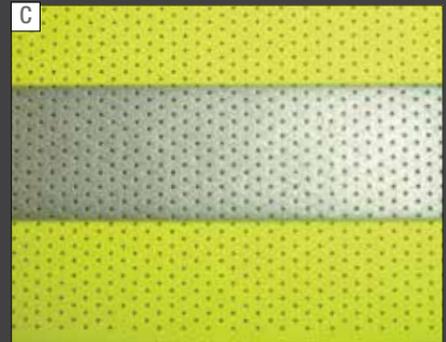
Key S-Series™ Highlights



A. S-Series Shortened Front Hem



B. S-Series Contoured Back Hem



C. LION Ventilated Trim



D. Drag Rescue Device (DRD)



E. Four Ergonomic Pocket Options

A. S-Series Shortened Front Hem

Reduced coat bunching and greater mobility when in a crawling or crouching firefighting position.

B. S-Series Contoured Back Hem

Optimum back protection with enhanced mobility.

C. LION Ventilated Trim™

that allows moisture vapor to escape, avoiding potential compression burns

D. Drag Rescue Device (DRD)

is a built-in rescue strap that's easy to access, but out of the way when not needed.

E. Four ergonomic pocket options

designed specifically to work in conjunction with the shorter coat front



Starfield™

3M Scotchlite™
Reflective Material

DuPont™
Nomex.

DuPont™
Kevlar®



ORBIT®



3M Scotchlite®
Reflective Material

DuPont®
Nomex

ORBIT® Bunker Gear:

Rugged, Reliable Bunker Gear at a Price That's Easy on the Budget

Orbit Bunker Gear delivers a high level of performance at a value price. We incorporate time-tested materials and components into our proven design and assemble it with the highest level of craftsmanship. The result is a safe, comfortable and durable ensemble that can stand up to the rigors of the world's most demanding profession.

Features and Enhancements

- 7.5 oz/yd² DuPont™ Nomex® IIIA outer shell, 7 oz/yd² Kevlar®/Nomex® Advance, 7.0 oz/yd² Kevlar/Nomex Fusion
- Gore™ RT7100 moisture barrier
- XLT-Lite™ thermal liner
- Liner Inspection System
- 3M™ Scotchlite™ Reflective Material (two-inch solid), Starfield LION Ventilated Trim® is standard on sleeves

Coat

- 32" coat length graded to wearer's height for tailored fit
- Stay-Dry™ collar and inner liner Mandarin collar systems
- Thermashield™ provides additional layer of liner material at high-compression areas of back and shoulders
- Bellows underarm construction and sleeve shaped to natural bend of arm deliver free and easy arm movements
- Full-length Quick Start™ zipper coat closure
- Knitted wristlets with thumb loops sewn directly to sleeve liners to form a continuous thermal seal
- Sleeve cuffs reinforced with Nomex or split suede leather
- Two 8" x 8" semi-bellows pockets
- Roomy pocket and Handi-Pouch™ on liner
- Drag Rescue Device (DRD) system is comfortable and easy to locate

Pants

- Traditional waist pants
- Four-panel pants design lets pants move with the firefighter
- Waist side adjustment straps for custom fit
- Hook and D-ring front fly closure with hook and loop closure on fly flap
- Knees and leg cuffs reinforced with choice of Nomex or split suede leather
- Moisture impermeable Lite-N-Dri™ cushioning material built into knee liner
- Parachute-style suspenders with snap tab connection





STARFIELD EXPRESS™



Starfield Express™

Gear Ships in Five Days or Less

You don't have to wait months for new bunker gear. Starfield Express ships in five working days or less. Starfield Express offers many of the same features and enhancements as our top-of-the-line bunker gear.

Starfield® Express

- 7.5 oz/yd² yellow DuPont™ Nomex® IIIA outer shell, DuPont™ Nomex® brand fibres add strength, durability and thermal protection
- Gore™ RT7100 moisture barrier and XLT-Lite™ thermal liner
- 3M™ Scotchlite™ Reflective Material (lime/yellow and silver) in NFPA pattern, Starfield LION Ventilated Trim® standard on sleeves
- Grey polymer-coated Kevlar® reinforcements on knees, Sleeve cuffs and leg cuffs reinforced with layer of self material
- Moisture impermeable Lite-N-Dri™ elbow padding
- Liner Inspection System — hook and loop sealed opening allows for complete liner inspection of coat and pants without opening seams

Coat

- 32-inch length coat with removable liner system
- Thermashield™ provides additional layer of liner material at back and shoulders for added comfort and protection
- Bellows underarm construction and sleeve shaped to natural bend of arm deliver free and easy arm movement
- Stay-Dry™ collar and inner liner Mandarin collar systems
- Full-length Quick Start™ zipper closure
- Two 8" x 8" semi-bellows pockets with medical glove pocket inside
- 7 1/4" x 4" x 2" radio pocket with mic loop on left chest
- Flashlight clip and hook and loop strap on right chest
- Drag Rescue Device — comfortable and easy to use
- Optional Port-a-Plate or lettering patch
- In-stock sizes: Small 33" sleeve, Medium 34" sleeve, Large 35" sleeve and XL and XXL 36" sleeve

Pants

- Traditional waist, four-panel design
- Hook and D-ring front fly closure with hook and loop closure on fly flap
- Moisture impermeable Lite-N-Dri™ cushioning built into knee liner section to help reduce likelihood of steam burns
- Parachute-style suspenders connect to pants with snap tabs
- Two 9.5" x 9" x 2" full bellows pockets
- In-stock pant sizes: 28", 30" and 32" inseam





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ADDITIONAL FABRIC OPTIONS



OUTER SHELLS

Outer Shell Criteria

The outer shell probably has the most demanding role in the total configuration of bunker gear. It has two critical functions: to resist ignition from direct flame impingement and to protect the internal layers from rips, tears, slashes, abrasion, etc. Some outer shell materials can have modest impact on TPP tests or can resist water absorption better than others. The real test of an outer shell material is its ability to maintain its protective qualities under high thermal loads and to stand up on the fireground.

PBI MAX™

A blend of 70% PBI® Dominant PBI®/Kevlar® spun yarns and 30% 600 denier Kevlar® filament for high levels of abrasion and tear resistance. PBI MAX is woven in a twill weave for flexibility and comfort. Includes Teflon® F/PPE fuel, chemical and water repellent finish from DuPont™ (developed just for firefighting PPE by Safety Components). Available in natural and black, PBI MAX™ is 7.0 oz/yd² in weight.

Armor™

7.0 oz/yd² Armor is the strongest, most flexible lightweight outer shell. It's a blend of 75% Kevlar® (50% filament/50% spun yarns) and 25% Nomex®. Treated with Teflon® F/PPE for the most durable water repellency.

Armor AP™

65% Kevlar and 35% Nomex (80% Nomex/Kevlar spun yarns and 20% Kevlar filament yarns). Armor AP is constructed of a 6.5 oz./yd² comfort twill with filament twill technology weave for improved comfort/flexibility, strength/durability and protection. Available in gold, khaki and black, Armor AP fabric includes a Teflon F/PPE fuel,

chemical and water repellent finish from DuPont (developed just for firefighting PPE by Safety Components). (Khaki color contains Nomex/Kevlar/Teijin Conex® spun yarns.)

Ultra™

7.5 oz/yd² plain weave with pronounced “ripstop” for added strength. Available only in natural gold colour. Its blend of 60% Kevlar, 20% Nomex and 20% PBI® provides outstanding structural integrity and resistance to abrasion and high heat. Super Shelltite™ finish delivers good water resistance.

Fusion™

A balanced blend of producer-dyed Kevlar and producer-dyed Nomex in a rugged 7.0 oz/yd² ripstop weave. Producer dyeing delivers better color performance and consistency, but also reduces stress on the fabric from finishing. Includes Teflon F/PPE fuel, chemical and water repellent finish from DuPont (developed just for firefighting PPE by Safety Components).

Advance®

60% Kevlar/40% Nomex blend fabric in a 7.0 oz/yd² ripstop weave for added strength. Available in several colors with a Super Shelltite™ finish for good water resistance.

Nomex® IIIA

Available in a 7.5 oz/yd² plain weave construction in a variety of colors, as well as undyed natural (off-white). A workhorse fabric with excellent resistance to rips, tears and abrasion. Nomex IIIA has lower thermal stability under extreme temperatures than many other outer shells because it contains a lower percentage of Kevlar, the “muscle fiber” in most turnout gear.

Outer Shell	Working Weight ¹	Thermal Damage ²	Durability ³	Water Resistance ⁴	Colour Fastness ⁵	Cost
PBI MAX 7.0 oz/yd ²	★★★★	★★★★	★★★★	★★★★	★★★	\$\$\$\$
Armor 7.0 oz/yd ²	★★★★	★★★	★★★★	★★★★	★★★	\$\$\$\$
Armor AP 6.5 oz/yd ²	★★★★	★★★	★★★★	★★★★	★★★	\$\$\$
Ultra 7.5 oz/yd ²	★★★	★★★	★★★★	★★★	★★	\$\$\$
Fusion 7.0 oz/yd ²	★★★★	★★★	★★★★	★★★★	★★★	\$\$
Advance 7.0 oz/yd ²	★★★	★★★	★★★	★★★	★	\$\$
Nomex IIIA 7.5 oz/yd ²	★★	★★	★★★	★★	★★	\$

1 Dry weight + moisture regain; high ranking = low weight.
2 Strength retention after high-heat exposure.

3 Long-term strength and abrasion characteristics.
4 Sheds liquids, soils and/or ice.

5 Resists change from UV, laundering, heat and abrasion.

TURNOUT THERMAL LINERS

Air Layers & Thermal Barriers

The ideal thermal insulation system is comfortable, lightweight, captures air and rejects water absorption while promoting the “wicking” of sweat. The best liners also withstand the effects of heat and have high porosity or air permeability.

The protective value of the fabric composite is really found in the air that’s between the firefighter and the heat source. Air itself is the greatest single source of the insulative qualities in protective clothing. Best of all, it weighs nothing and it’s free! The most functional way to achieve the best protection is to use a multi-layer configuration in which each layer accomplishes part of the job. Extremely efficient insulation can be gained by creating very thin air spaces between the layers, which supplement the air contained within the layers. It’s important that none of these individual air spaces exceed 1.8 cm of thickness, because convective currents start beyond that thickness and may begin to quickly transmit heat. Similarly, air layers that are replaced by water can be unpredictably dangerous. Unlike air, water is an amazing conductor of heat.

Thermal barrier systems with the most air spaces can:

- Create the most layers of air
- Resist absorption (water replacement of the insulating air)
- Provide the most reliable protection

The Face Cloth Can Make a Big Difference

Another important consideration for thermal barriers relates to comfort and mobility. The part of your liner that you can usually see is the “face cloth”. The face cloth is generally the muscle, while the inside of your thermal barrier is the brain. Face cloths that “wick” perspiration off the body are more comfortable and some face cloths have the added advantage of being slippery. Liner systems using high-lubricity face cloths can reduce the strain of moving around and have been proven to be effective in reducing stress (IAFF/Indianapolis FD Study, 1999). Not all shiny liners have high lubricity.

It is now widely recognized that thermal barriers which use slippery yarns on the “face cloth” next to the wearer are far less likely to bind and restrict the firefighter’s movement. The super-strong filament yarns which create this lubricity are also excellent at wicking perspiration away from the body.

Non-Woven

Non-woven material, such as those made with Nomex® and Kevlar®, is normally of consistent weight and thickness. A significant portion of the insulating value of non-woven liners comes from the air space between the layers. Non-woven liner systems usually have multiple layers of insulative fabrics. AraFlo® is an engineered improvement to the original fabric. During production, small evenly spaced apertures are created in the fabric. This promotes greater air permeability and quicker drying.

Another advantage that can be applied to some non-wovens is the addition of a durable water repellent finish. The non-wovens are impregnated with a highly-durable, water-resistant treatment to greatly improve the liner’s ability to resist water absorption. Treated non-wovens also dry very rapidly. Dry liner systems minimize the amount of water that can replace the critical insulative air space in the system.

Battings

Battings (sometimes called felts or needled non-wovens) are a soft, bulky material using the air between the randomly-needled fibres to form an insulative barrier.

Thermal liners using battings are usually made with one layer of needled material quilted to a face cloth. Battings cannot be treated to reduce water absorption and, therefore, they can get very heavy, be slow to dry and may transfer heat when wet.

TURNOUT THERMAL LINER OPTIONS

Low Friction lets you Move More Freely

Glide™ face cloth has the highest lubricity in the fire service. The slick low-friction properties of Glide™ mean added freedom of movement and less working stress for a more comfortable feel in your gear. Freer movement means thermal liner systems with a Glide™ face cloth help fight stress and fatigue.

Wicking Characteristics Keep you Ready for Action

Glide™ eliminates the clammy feel of other low-friction filament liners by wicking perspiration away from the body to keep you more comfortable. It also dries twice as fast as other low friction liners. Liners with Glide™ look and perform better.

Glide™ 2L AraFlo®

This high-tech liner delivers very high THL values and reduces the risk of water-related burn injuries. The Glide™ face cloth wicks perspiration quickly, but the entire system carries less water and dries more rapidly than any other traditionally-oriented concept. This liner option uses two layers of spunlace, including one layer of apertured AraFlo®, and a low-friction face cloth. Both layers of spunlace are treated with a durable water repellent finish for high-performance water resistance.

Gore® Parallon™

LION IsoDri, with the Gore Parallon Liner System, offers a level of firefighter turnout gear breathability and enhanced thermal protection in a wide range of conditions. This moisture management system helps to keep gear drier and provide more reliable thermal protection. All in all, this unique multi-layer combination of the thermal liner and moisture barrier helps to reduce firefighter fatigue from heat stress and heavy, wet gear.

Glide™ 2L Nomex®/Kevlar® Spunlace

This liner uses the Glide™ face cloth quilted to two layers of Nomex®/Kevlar® spunlace producing a thermal barrier that delivers a good balance of TPP and THL. The Glide™ face cloth has a low coefficient of friction and wicks perspiration off the body quickly.

Chambray 3L AraFlo®

Chambray 3 Layer AraFlo® maximizes the insulating air within the system. Not only are air spaces created between the multiple layers of Nomex®/Kevlar® spunlace, but are also contained in the thousands of apertures within the aperture AraFlo®. Chambray 3 Layer AraFlo® dries faster than conventional liner systems and offers superior TPP without sacrificing a great deal of THL. The Chambray face cloth is producer-dyed for long term reliability.

Caldura® SL2i

Caldura® spun/filament face cloth quilted to two layers of spunlace producing a thermal barrier that delivers a good balance of TPP and THL in a non-IsoDri combination.

Aralite SL2

Aralite spun fiber face cloth, dyed in color, quilted to two layers of spunlace. This non-IsoDri combination delivers reliable TPP and THL.

Glide™ Pure

Glide™ Pure combines the Glide™ face cloth characteristics with a batting of completely virgin fibers to provide reliable protection. Glide™ Pure battings cannot be treated with Teflon® F-PPE.

Prism Pure

The Prism face cloth blends several spun fibers to offer high wicking characteristics to increase comfort. The Prism face cloth is quilted to a batting of completely virgin fibers. Prism Pure battings cannot be treated with Teflon® F-PPE.

XLT-Lite™ Chambray Liner

Chambray face cloth quilted to reprocessed fibers recycled into a batting. Delivers good TP values, but lower THL values.



DuPont™
Nomex®

TURNOUT MOISTURE BARRIER OPTIONS

Moisture Barrier Criteria

While the moisture barrier has a number of supplemental functions, its main job is to keep the thermal protective properties of the system intact by preventing external water from penetrating into the critical air spaces of the garment.

A dry system is safer, more dependable, more comfortable and a lot lighter than a wet one. All moisture barriers will shed external water, but there are significant differences in their breathability, durability, thermal integrity and long-term reliability.

Highly-breathable moisture barriers are intended to prevent water from entering into the thermal layers, while allowing body vapor from sweat to escape outward. A more breathable barrier will usually reduce the amount of moisture and body heat that can be trapped inside the gear. Remember, the body heat in your sweat can only escape through your breathable moisture barrier in vapor form.

What is Total Heat Loss?

In its efforts to maintain metabolic equilibrium, the body exhausts excess heat. Some of this thermal energy is dry heat, but most of it is in the form of sweat. The evaporation of sweat is the body's most effective natural cooling mechanism. The Total Heat Loss number for a fabric or a combination of fabrics is the amount of energy that can be transferred through the system ... from the inside out. The higher the THL value, the more likely the system is to allow excess body heat to escape, greatly reducing heat stress, keeping you cooler and dryer in extreme environments.

Moisture Barrier Offerings

Starfield LION turnouts offer a full range of moisture barriers from W.L. Gore: CROSSTECH® Black, CROSSTECH 3-Layer and Gore RT7100™. Each is engineered to give you superior penetration resistance against water, blood, bodily fluids and NFPA common fireground chemicals.

CROSSTECH Black Moisture Barrier

CROSSTECH black moisture barrier offers the highest breathability in more conditions to manage heat stress better in conventional turnout gear. High breathability is maintained even after exposure to extreme heat. Its improved durability delivers long-lasting protection call after call while helping to also reduce maintenance costs. Lab tests, and field testing has shown that it remains significantly more liquid-proof and less prone to damage.

CROSSTECH 3-Layer Moisture Barrier

CROSSTECH 3-layer moisture barrier is the most durable, flexible and abrasion-resistant moisture barrier available. It provides the best combination of durability, breathability to manage heat stress better, and thermal protection in a rugged three-layer construction for the most demanding scenarios.

GORE RT7100™ Moisture Barrier

GORE RT7100 moisture barrier meets the performance needs and cost considerations of specific departments. It provides a combination of durability, breathability to manage heat stress better, and thermal protection that are unmatched in its price range.

Turnout Reinforcement Material Options

Reinforcements Add Life to High-Wear Areas

Shoulders, knees, elbows and cuffs should be reinforced to protect the wearer and extend the useful life of your turnout. It's a lot less expensive to replace a single layer of reinforcement material than it is to try and repair a turnout that has an abraded outer shell, thermal liner and moisture barrier.

In addition to reinforcement, high-compression areas such as shoulders, elbows, yoke and knees should be cushioned to provide additional comfort and thermal protection to the firefighter.

Extra Outer Shell Layer

An extra layer of outer shell material is relatively flexible. The cost varies by fabric. "Self fabric" is the least durable of all the reinforcement options. If the extra layer of outer shell material is an IsoDri® fabric, it will have somewhat better durability and water resistance than other outer shell materials.

Leather

Leather is the least expensive option for reinforcement. It is more durable than any outer shell, but can be difficult to clean. It also picks up more water than other reinforcements.

Polymer-Coated Aramid

Polymer-Coated Aramid has outstanding water resistance. It's very durable, easy to clean and stands up to heat. It's a little less flexible than leather or self material and costs a bit more than leather.

Reinforcement materials	Durability ¹	Thermal Resistance ²	Water Resistance ³	Flexibility (with padding)	Laundering ⁴	Cost
Leather	★★★	★★★★	★	★★	★★	\$
Shell Material	★★	★★	★	★★★	★★★	\$\$ ⁵
IsoDri Shell Material	★★+	★★	★★+	★★★	★★★	\$\$ ⁵
Polymer-Coated Aramid	★★★	★★★	★★+	★★	★★★	\$\$

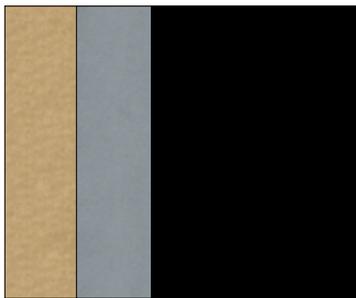
1 Abrasion, slash and puncture resistance.

2 Tolerance to heat exposure and contribution toward contact burn protection.

3 Low moisture regain and protection of underlayers.

4 Soil release and ease of cleaning.

5 Cost is higher for expensive shells.



Polymer-Coated Aramid



Leather

Compression Burns & Moisture Management

Reducing Compression Burns

One of the most frequent factors in firefighter injuries is the compression burn. These injuries can range from irritating “strawberry” burns all the way up to life-threatening, full-thickness burns.

Compression burn injuries can happen in routine operations or in an inferno. They almost always happen without warning, so it’s sometimes said that nothing can be done about them. That’s not true.

Moisture Management Is the Key

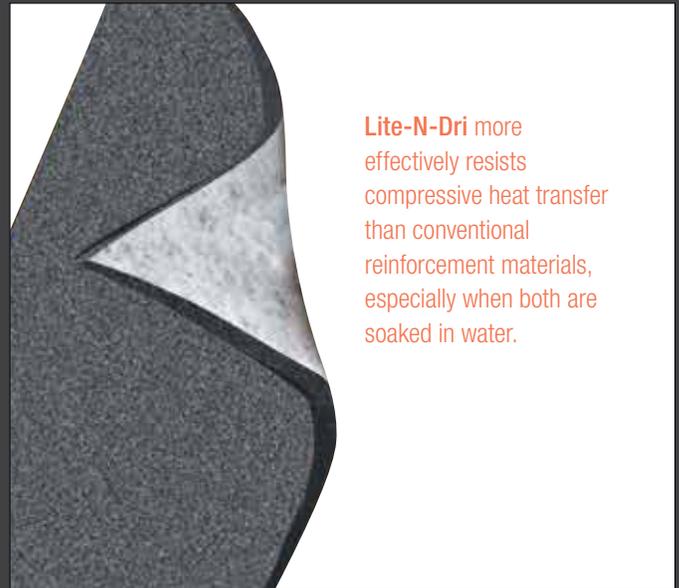
The dangers of compression burns cannot be totally eliminated for firefighters, but the likelihood and frequency can be reduced. Since the presence of water in the PPE system greatly increases the unpredictability of your protection, “moisture management” is a key element in reducing risk.

Lite-N-Dri™ Cushioning Adds Thermal Protection to High-Compression, High-Risk Areas

Lite-N-Dri cushioning provides supplemental thermal insulation to turnout coats and pants in high-compression areas such as knees, shoulders, elbows and yoke.

Its basic function is to guard against extraordinary thermal energy (heat) overpowering the thermal barrier and putting the firefighter at risk. When parts of your protective envelope are compressed, you are more vulnerable to heat-related injury because the compression removes the insulating air from your thermal barrier.

Lite-N-Dri has millions of air pockets that allow it to deflect and absorb energy. Lite-N-Dri is impermeable so it will not absorb water. This further helps reduce your vulnerability to compression-related burn injuries, especially compared to batting-type knee pads that soak up water like a sponge.



Lite-N-Dri more effectively resists compressive heat transfer than conventional reinforcement materials, especially when both are soaked in water.

Lightweight & Flexible

Compared to other knee systems, Lite-N-Dri is lighter weight and more flexible, increasing mobility and reducing stress on the firefighter.

Most thermal insulators in today’s PPE deflect a little energy and then absorb as much energy as they can. When they’ve absorbed their fill, they transfer that energy. That energy transfer can be quick, explosive and unpredictable, especially when water is introduced into the system. At only 200°F, water transfers heat 21 times more quickly than air.

Lite-N-Dri cushioning helps guard against heat-related injuries in areas of high-compression such as knees, shoulders, elbows and yoke. That’s why Lite-N-Dri is built into the knee of every liner and every shell of Starfield LION turnout gear



Starfield™

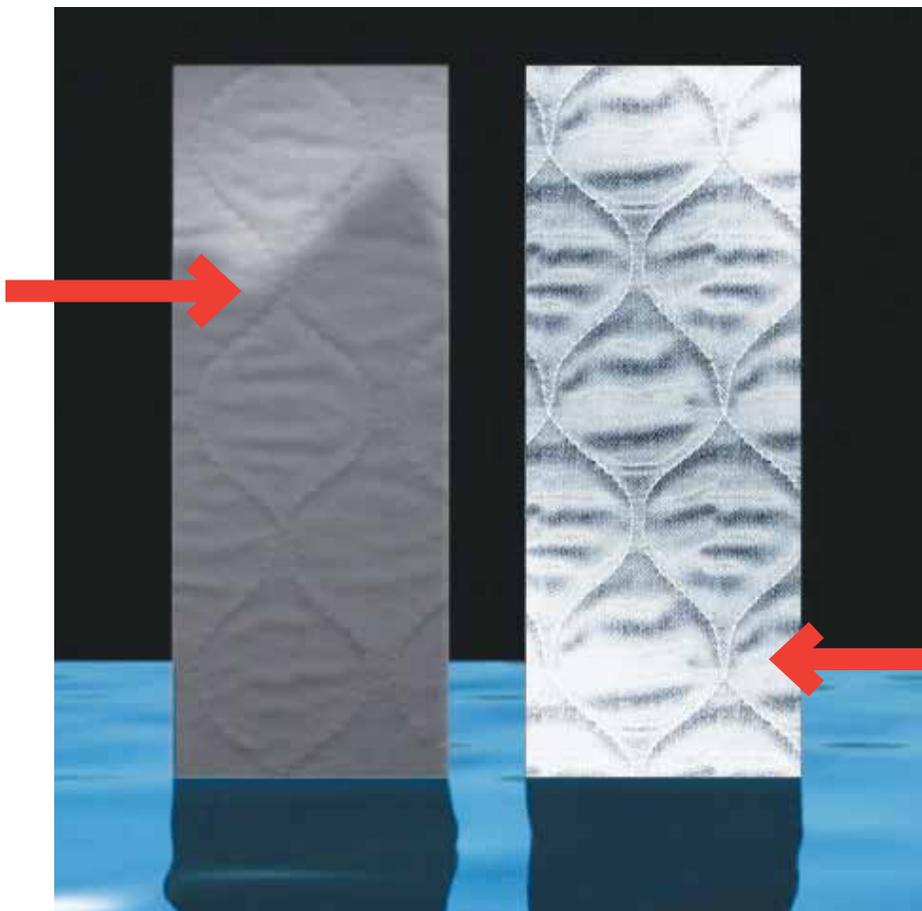
SemperDri™ System Reduces Water Gain

Thermal liners on conventional turnout pants have a tendency to absorb water from fireground activities at the bottom of the leg and migrate upward, sometimes even beyond the knees. This can make the garment heavy and uncomfortable, contribute to stress and possible burn injury during firefighting activities and require more drying time. Gravity of the excess weight can also pull the hems of the pants down, causing contact with ground surfaces. This can contribute to premature wear at the cuffs and even seat and crotch seam failure on turnout pants.

To reduce the stress on you and your turnout gear, SemperDri™ employs a special treated thermal liner material to reduce absorption, staying drier and lighter. This means more comfort and less stress. In comparative field tests, garments using SemperDri™ material in the lower legs were noticeably lighter in weight after structural firefighting activities and training exercises involving high volumes of water.

WET PANT

Common thermal liner material absorbs water from the fireground. This adds weight, which can contribute to premature wear and can displace the insulative air in your protective envelope, making you vulnerable to steam and compression burns.



DRY PANT

SemperDri™ employs Teflon® F treated thermal lining material at the lower part of the legs, the arms and shoulders/yoke area to minimize absorption. This keeps the garment's working weight closer to its dry weight.

Integrated Harnesses & Escape Belt



READY WHEN YOU NEED IT: Integrated Class II Rescue Harness™

Starfield LION's Integrated Class II Rescue Harness, made from Kevlar®, is built into Starfield LION bunker pants between the outer shell and liner system. This maintains the integrity of one's PPE and protects the harness.

The sleek, integrated design responds to the user when loaded, but stays relaxed and out of the way when not in use, providing peace of mind and protection from snags and other various hazards. Waist and leg loop adjusters offer a more comfortable and concise fit, while the sliding D-ring provides the best possible interface to the escape kit. The harness is also removable for easier care and maintenance.

The Starfield LION Integrated Class II Rescue Harness is designated and certified as an **NFPA 1983**, Class II Life Safety Harness. It is to be used for emergency escape with up to two-person load/capacity. It also meets the requirements of **NFPA 1971** so that the harness retains its integrity when exposed to heat.



Emergency Escape Belt

The Starfield LION Escape Belt is an emergency self-rescue device that fastens at the waist outside of your turnout pants. The belt is positioned through belt loops on the pants and fastens with a hook and ring closure. When the escape rope is attached to the belt, it engages in the proper position.

The escape belt is made from two-inch Kevlar webbing and is certified to meet **NFPA 1983**. It is certified for use up to 300 pounds. When the belt is combined with a rope, descender and carabiner, it can be used as an escape system. It is also certified to the requirements of **NFPA 1971**, so the belt retains its integrity when exposed to heat.



Starfield™
ready for action

WILDLANDS



Protec® Wildlands Coverall

Great Comfort and Fit With No-Gap Protection



Protec Wildlands Coverall

- Available in NOMEX® IIIA, Indura® FR cotton, or Brigade 600 materials which are compliant to NFPA 1977 standard
- Two-way, full-length, double-brass zipper with material shield and fabric backing to prevent heat transfer
- Action back design for maximum mobility
- Stand-up mandarin style collar for continuous thermal seal
- Two large chest pockets with full coverage pocket flaps and pen slot (left side)
- Adjustable hook and loop wristlet and ankle closures keep embers from entering sleeve and leg area
- Reinforced waistband contains elasticized waist with adjustment straps for comfort fit
- Two 1/8 top-side pockets and two seat pockets with full coverage flaps
- Self-material hanger loop at neck
- Major seams Double-needle topstitched for maximum durability

Options

- Radio pocket and mic loop
- Semi-bellows thigh pockets
- 3M™ Scotchlite™ Reflective Material for maximum visibility — one-inch or two-inch solid colours or 2" triple trim
- Reflective numbers and letters
- Pass-through pockets with hook and loop closures
- Zippered leg closures



Starfield™

3M Scotchlite™
Reflective Material

DuPont™
Nomex®

Protec® Wildlands Gear

Comfortable Two-Piece Protection



Protec® Wildlands Gear

- Available in NOMEX® IIIA or Indura® FR cotton materials which are compliant to NFPA 1977 standard

Protec® Wildlands Shirt

- Nickel-plated brass snap front closures with fabric shield to prevent heat transfer
- Adjustable hook and loop wristlet closures keep embers, sparks and other debris from penetrating
- Two spacious chest pockets with full coverage pocket flaps (hook and loop closure) and pen slot (left side)
- Extra long front and back hem that can be tucked in or left out of pants
- Outer shell material hanger loop at neck
- Double-needle topstitched for maximum durability

Protec® Wildlands Pants

- Durable belt loops accommodate up to 2" belt
- Two spacious contoured front slash pockets
- Two large seat pockets fully covered by flaps
- Self-locking, NOMEX® zipper fly closure with fabric shield to prevent heat transfer
- Elasticized waist for comfort and flexible fit
- Adjustable hook and loop ankle closures keep embers, sparks and other debris from penetrating leg area
- Double-needle topstitched for maximum durability

Options

- Radio pocket and mic loop
- 3M™ Scotchlite™ Reflective Material for maximum visibility — one-inch or two-inch solid colours or 2" triple trim
- Reflective numbers and letters
- Zipper front top closure
- Thigh semi-bellows cargo pockets
- Ten-inch zipper bottom leg closures



LA™ Series Wildlands Gear



Jacket Features

- Available in NOMEX® IIIA, Indura® FR Cotton, PBI® TriGuard™, or Brigade 600 materials which are compliant to NFPA 1977 Standard
- PBI® TriGuard™ and Brigade 600 are also certified to meet NFPA 1951 Standard
- Collar has throat tab and FR hook and loop closure
- FR hook and loop storm flap closure with zipper
- 3.5" x 8" x 1.5" radio pocket with mic tab
- Roomy 8" x 8" x 2" semi-bellows pockets
- Hook and loop sleeve cuff adjusters for secure thermal seal
- Tapered torso for reduced bulk at chest and waist and better fit over the hips
- 3M™ Scotchlite™ Reflective Material — 2" lime/yellow and silver across the back and on front pocket flaps
- Double-needle topstitched for maximum durability

Pants Features

- Available in NOMEX IIIA, Indura FR Cotton, PBI TriGuard, or Brigade 600 materials which are compliant to NFPA 1977 Standard
- PBI TriGuard and Brigade 600 are also certified to meet NFPA 1951 Standard
- Elastic waist with belt loops for custom fit
- FR hook and loop fly closure with snap
- Extra long FR and water-resistant Lite-N-Dri™ padding in knees
- Backing behind pants to reduce heat transfer
- Double-needle topstitched for maximum durability
- Snap cuff adjusters to guard against embers
- Roomy 8" x 8" x 1.5" cargo pocket on each leg
- Patch pocket with flap on right hip
- 12" zipper leg opening for easy donning and doffing over boots
- 3M Scotchlite Reflective Material — 2" lime/yellow and silver triple trim



Starfield™

3M Scotchlite™
Reflective Material

DuPont™
Nomex®



Starfield™
ready for action

COVERALLS



Ultimate™ Coverall

Fully-Featured, Lightweight Coverall



Durable

- Available in NOMEX® IIIA, Indura® FR Cotton, PBI® TriGuard™, or Brigade 600 materials which are compliant to NFPA 1977 Standard
- PBI® TriGuard™ and Brigade 600 are also certified to meet NFPA 1951 Standard
- FR, water-resistant Lite-N-Dri™ padding at elbow and knee. Reinforced with extra layer of outer shell material

Mobile

- Action back design for maximum mobility
- Ergonomically designed for optimum fit and comfort
- Optimum fit reduces pulling and tugging

Secure

- Comfortable Mandarin collar with hook and loop closure
- Two-way, full-length double brass zipper with storm flap and fabric backing for secure thermal seal
- Elasticized waist adjuster straps
- 10" zipper leg closures for fast donning and doffing
- Hook and loop wrist and lower leg adjuster straps to guard against ember penetration

Visible

- 3M™ Scotchlite™ Reflective Material on biceps, lower leg and upper back — two-inch
- 3M™ Scotchlite™ Reflective Material letters/numbers sewn on upper back — optional

Pockets and Hardware

- Radio pocket and mic loop on left side chest
- Chest pocket with hook and loop closure on right side
Utility D-ring above pocket
- Pocket with pen slot on left sleeve
- Slash waist pockets
- Pass-through pockets with hook and loop closure
- Semi-bellows cargo pockets on each thigh with hook and loop flap closure
- Two seat pockets with hook and loop flap closure



Starfield™

3M Scotchlite™
Reflective Material

DuPont™
Nomex®

Protec® EMS Jumpsuit

Designed for Professional Medics & the Challenges They Face



EMS Jumpsuit

- Built with flame-resistant, NFPA 1975 compliant DuPont™ Nomex® IIIA fibre, or Brigade 600 materials.
- Action back design for mobility
- Epaulettes and sewn-in leg creases for crisp, professional appearance
- Two chest pockets with flaps and pen slot (on left pocket)
- Mic loop above left chest pocket
- National flag sewn on left chest pocket
- Full-length, two-way front zipper closure with material shield for easy donning and doffing
- Underarm eyelets for venting (poly/cotton only)
- Removable zippered sleeves for all season wear
- Hook and loop wristlet closures for FR garments and domed fastener closures for non-FR
- Elasticized waistband for comfort and flexible fit
- Wide format belt loops support weight of utility belt
- Two western style pockets, two full bellows thigh pockets and two seat pockets with flaps
- 3M™ Scotchlite™ Reflective Material around arms and on leg outseam for maximum visibility — one-inch silver

Options

- Short-sleeve jumpsuit
- Scissors pocket
- Star of Life logo in 3M Scotchlite Reflective Material
- Reflective numbers and letters
- Knee reinforcements
- Zippered leg closures



Removable Sleeves



Scissors Pocket

Protec® High Level Rescue Coverall

Comfortable & Durable First Responder Protection



High Level Rescue Coverall

- Built with flame-resistant, NFPA 1975 compliant DuPont™ Nomex® IIIA fibre. Also available in other materials
- Epaulettes and sewn-in leg creases for crisp, military styling
- Action back design for maximum mobility
- Chest pockets include radio pocket (left side) and zippered pocket (right side)
- Two-way, full-length front zipper for easy donning and doffing. FR garments include zipper tape made from DuPont Nomex
- Elasticized waist with size adjustment straps for comfort fit
- Two slash pockets and two semi-bellows thigh pockets
- 3M™ Scotchlite™ Reflective Material on arms, legs and back for maximum visibility — one-inch silver
- Hook and loop sleeve and leg closures
- Shoulder flashes/badges sewn on at no extra cost
- National flag

Options

- Knee padding and reinforcements
- Pass-through pockets with hook and loop closures on FR garments
- Sleeve notebook pocket
- Zippered leg closures
- Mic tab
- Additional varieties of 3M Scotchlite Reflective Material (one-inch or two-inch)
- Reflective letters and numbers
- Embroidered name plates



Protec® Standard Coverall

Durability & Comfort at a Great Price



Standard Coverall

- Built with flame-resistant, NFPA 1975 compliant DuPont™ Nomex® IIIA fibre. Also available in other materials
- Two chest pockets with hook and loop closure
- Action back design for added mobility
- Two-way, full-length front zipper closure for easy donning and doffing
- Hook and loop wristlet closures
- Elasticized waist for comfort fit
- Two slash pockets and two hip pockets
- Shoulder flashes/badges sewn on at no extra cost

Options

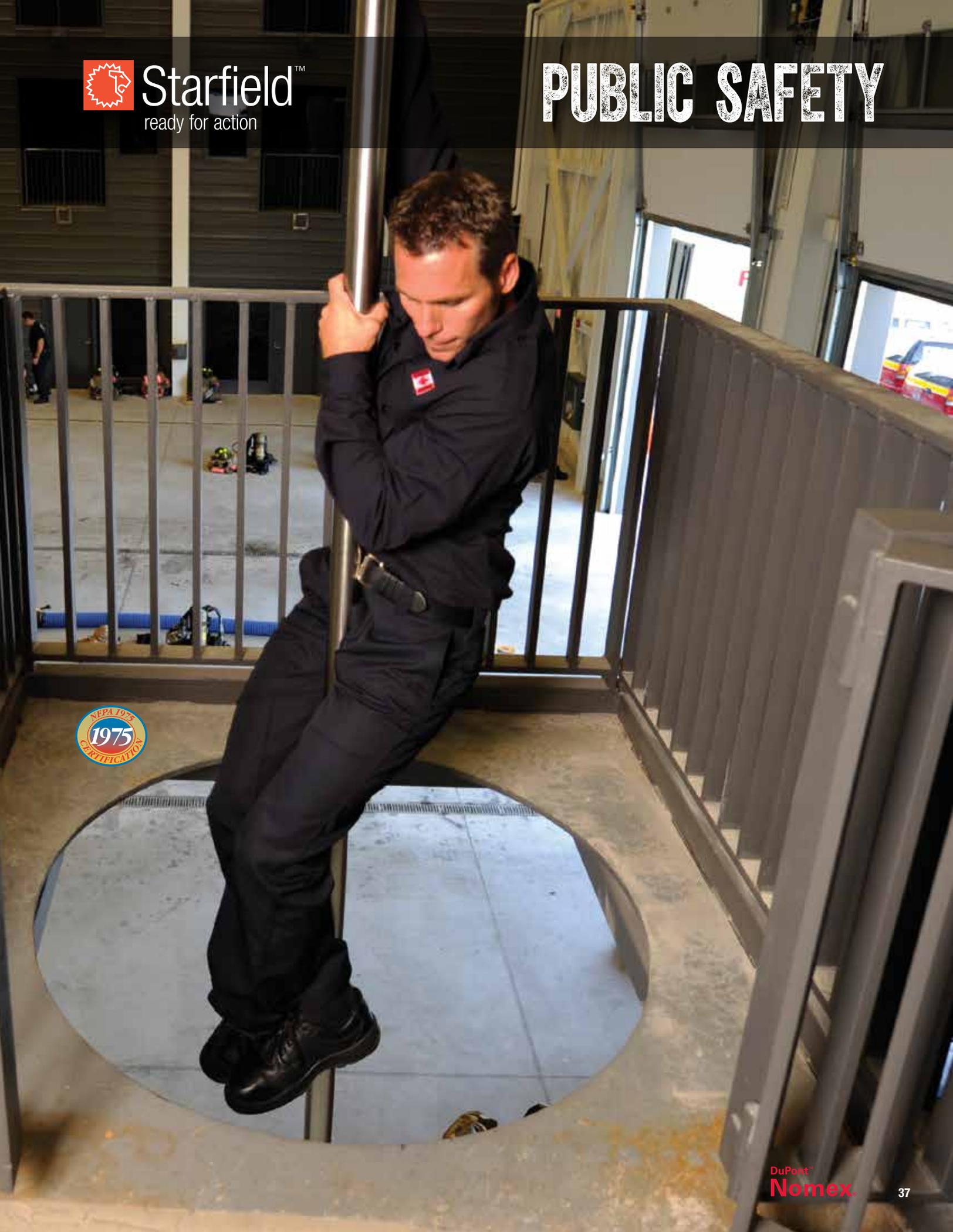
- Reinforced knees
- Pass-through pockets
- Radio pocket
- Sleeve notebook pocket with pen slot
- 3M™ Scotchlite™ Reflective Material for maximum visibility — silver. CSA compliant trim pattern for better road worker visibility is available
- Reflective letters and numbers
- Embroidered name plates





Starfield™
ready for action

PUBLIC SAFETY



Protec® GTA Style Shirt & Pants

Standard Station Wear Shirt and Pants. Crisp, Professional Station/Work Uniforms



GTA Shirt & Pants

- Built with flame-resistant, NFPA 1975 compliant DuPont™ Nomex® IIIA fibre. Also available in other materials

GTA Shirt

- Epaulettes and sewn-in creases for crisp, professional look
- Contoured spade breast pockets
- Reinforced badge holder positioned on front seam for added strength
- Two-layer reinforced upper back (yoke)
- Snap closures with decorative buttons
- Long or short sleeve
- National flag

GTA Pants

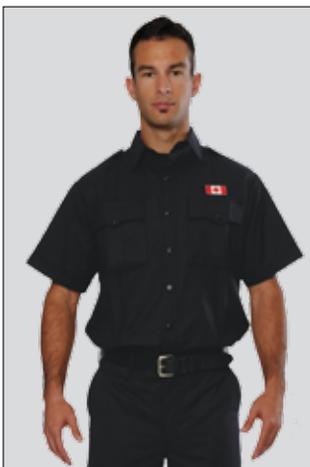
- Two slash pockets and two seat pockets with button closures
- Watch pocket
- Reinforced side pocket bags
- Triple row of full fell sewing on each outseam
- Permanent creases in front of legs for lasting, crisp, professional appearance
- Heavy-duty ratcheting brass zipper (with Nomex® tape) used for all garments made from FR material
- Steel hook and bar waist closure
- Silicone shirt grip keeps shirt tucked in
- Outlet at back of waistband for size adjustment
- Wide format belt loops

Standard Station Wear Shirt

- Standard chest pockets
- Long or short sleeves
- Two-layer reinforced upper back (yoke)
- Button closures
- Epaulettes and permanent creases
- National flag

Standard Station Wear Pants

- Slash pockets
- Permanent creases
- Two seat pockets with button closure



Standard Station Wear
Shirt and Pants

Protec® Tactical Shirt & Pants



Tactical Shirt & Pants (Police, Fire & Ambulance)

- Built with flame-resistant, NFPA 1975 compliant DuPont™ Nomex® IIIA fibre. Also available in other materials

Tactical Shirt

- Epaulettes and permanent creases for crisp, professional look
- Double yoke upper back
- Elbows reinforced with second layer of fabric
- Sleeve strap and button closure keep rolled sleeves up
- Sleeve plackets cover buttons to prevent snagging
- Two chest pockets with pocket flaps, decorative button and hook and loop closures. Pen slot (left side)
- Mic loop above left chest pocket

Tactical Pants

- Two slash pockets, two seat pockets with flaps and semi-bellows pockets with additional inside pockets on each thigh
- Permanent creases in front of legs for lasting, crisp, professional appearance
- Heavy-duty brass zipper
- Double steel hook and bar waist closure
- Shirt grip waistband keeps shirt tucked
- Outlet at back of waistband for size adjustment
- Knees reinforced with self material for durability
- Wide belt loops to hold utility belt

Options

- Inside thigh pad pockets
- Scissors pocket built into cargo pocket
- Drawstring leg closures
- Lower leg (calf level) outseam bellows pockets for quick access
- 3M™ Scotchlite™ Reflective Material on outseam for maximum visibility — one-inch silver vertical
- Embroidered name plates



FABRIC COMPARISON

DuPont™ Nomex® IIIA — aramid fibre manufactured by DuPont. Blend of 93% Nomex®, 5% Kevlar® and 2% static dissipative fibre.

- Inherently flame-resistant — won't melt, drip or support combustion in the air
- FR cannot be degraded by laundering
- Char length less than 4"
- Moderate moisture regain
- Should not be considered where critical static control is required
- Easy to maintain
- Very low shrinkage
- Colour can change with overexposure to UV
- Estimated wear life is 3-4 years

FireWear® — blend of 55% FFR (Fibrous Flame Retardant Fibre) and 45% combed cotton manufactured by Springfield Fabrics

- Inherently flame-resistant
- FR cannot be degraded by laundering
- Char length less than 6"
- Excellent moisture regain
- Should not be considered where critical static control is required
- Wovens require at least "touch-up" ironing
- Low shrinkage
- Good colourfastness
- Estimated wear life is about 2 years

Indura® Ultra Soft® FR Cotton — natural fibre taken from the cotton plant and treated with flame retardant. Blend of 88% cotton/12% high tenacity nylon

- Known as the "comfort" fibre
- Good moisture regain
- May be considered where critical static control is required
- Wovens require ironing
- Estimated wear life is 1-1.5 years

Poly/Cotton — 65% polyester/35% cotton.

- No flame resistance and will melt under high heat
- Moderate moisture regain
- Should not be considered where critical static control is required
- Requires at least "touch-up" ironing
- Very low shrinkage
- Good colourfastness
- Estimated wear life is 1.5-2 years

Fibre	Flame Resistance	Comfort	Ease of Maintenance	Durability	Cost
Nomex IIIA	★★★★	★★★	★★★★	★★★★	\$\$\$\$
FireWear	★★★	★★★	★★★	★★	\$\$\$
Indura Ultra Soft FR Cotton	★★	★★★★	★★	★★	\$\$
Poly/Cotton	1	★★★	★★★★	★★	\$

1 No flame resistance and melts under high heat.

★★★★ = the highest performance.

\$\$\$\$ = the highest cost.

WHY CHOOSE NOMEX®?

Starfield LION's DuPont Nomex IIIA brand fibre StationWear has proven performance and permanent flame resistance.

Nomex Performance Advantages:

- Meets NFPA 1975 Standards
- Self-extinguishes
- Won't melt or drip
- Low fabric shrinkage during flame exposure reduces the chance of skin contact with hot fabric
- Non-toxic when heated to flame temperatures
- FR qualities remain throughout the life of the garment – they won't wash or wear out

Great Styles, Great Comfort

Starfield LION's classic time-tested styles maintain their shape and fit for comfortable 24-hour wear. Uniforms made of lightweight Nomex IIIA are used by many departments in the hot, humid climates of the southern United States with excellent results in terms of comfort and breathability. Inherently flame-resistant for superior performance

Easy to Maintain, Always Looks Great

Starfield LION StationWear Nomex IIIA uniforms are literally wash-and-wear. They can be laundered using normal, commercial laundering or dry cleaning techniques.

Because the flame-resistant protection is part of the fibre, the protection cannot be washed or worn out.

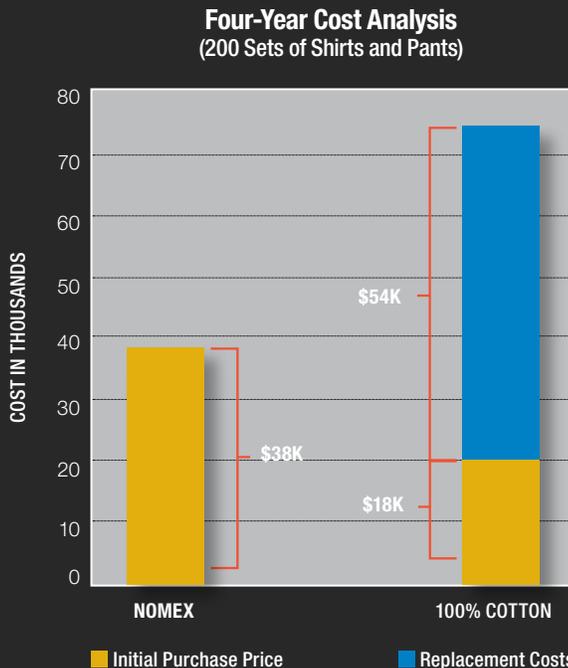
Long Wear Means Cost Savings

Starfield LION's Nomex StationWear also exhibits greater abrasion resistance, low shrinkage and colour fastness.

This translates into superior durability. The average wear life of Starfield LION Nomex StationWear is between three and five years. Compare that to one year for cotton or two years for FireWear.

While the initial cost for a garment made with Nomex fibre is more than other fibres, it is significantly less expensive in the long run. Over a four-year period, the total cost (initial price and replacement costs) for 200 sets of shirts and pants of cotton is about \$72,000. Garments made from Nomex are just \$38,000 (see Figure 1).

Figure 1:
Savings Model:
LION
Nomex IIIA
StationWear



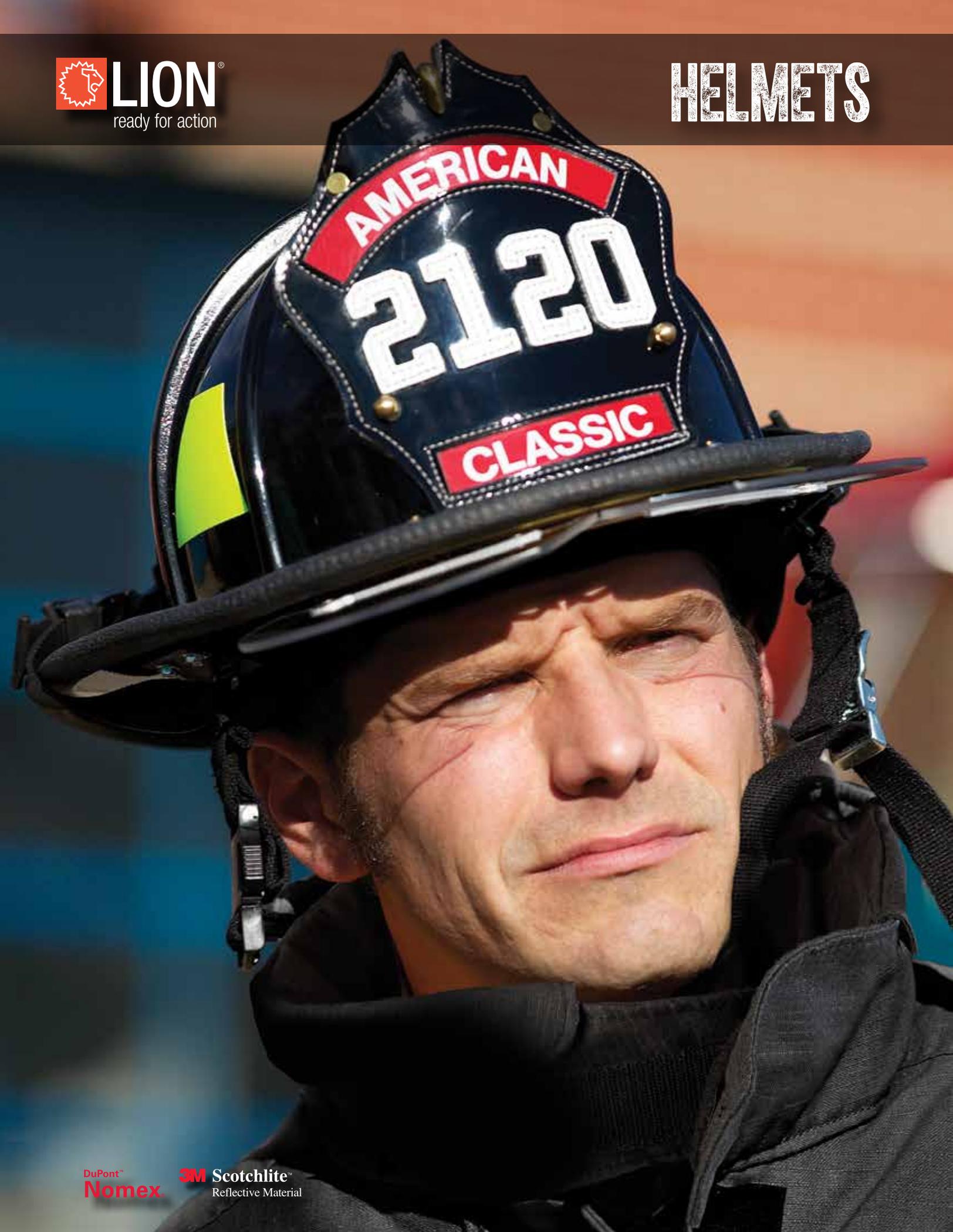
LION StationWear Materials Comparison

FEATURE	NOMEX IIIA	COTTON
Flame Resistance	Inherent	None
Moisture Regain	4.5%	75%
Wear Life	4-5 years	1 year
Thermal Protection	30-40% Predicted Burn Injuries	70-90% Predicted Burn Injuries
Initial Cost	1.6	1



LION[®]
ready for action

HELMETS



DuPont[™]
Nomex.

3M Scotchlite[™]
Reflective Material

The Science of Helmet Comfort & Safety

Five-point Adjustment System Delivers a Custom Fit

The comfort level of a helmet is much more than a matter of personal preference. It directly corresponds to how closely the fit of your helmet matches the dimensions of your head. Since no two heads are alike, this requires that certain components of the helmet be adjustable.

Comfort is also a safety concern. It's well established that a comfortable helmet will be worn longer with less fatigue.

Delivering Custom Fit

LION Helmets™, both traditional and modern style, provide the wearer with the ability to adjust the helmet's center of gravity, front headband height (three settings) and back headband height (three settings). The headband is padded in both the front and back to dissipate the pressure of a fully-engaged ratchet. These combine to deliver optimum comfort, fit and safety.

Center of Gravity

This is determined by how your suspension system (straps) interfaces with the top of your head. The center of gravity is established by the intersection of the front and back suspension straps with the side straps. A properly-seated center of gravity will provide optimum balance. There should be little to no "wobble", either from side-to-side or front-to-back. Our adjustable straps allow you to determine where the center of gravity will be located.

Headband Height

The height of your headband affects the profile of your helmet, how well it interfaces with the SCBA mask and how well it fits the shape of the back of your head.

The height of the front of the headband should be adjusted so it clears your SCBA mask. This permits the proper seal for your mask and keeps the headband from resting on top of the mask and lifting the helmet, which decreases balance and reduces comfort.

The height of the rear of the headband needs to be set below the occipital lobe (the knot at the base of your skull). This and the proper rear ratchet band angle eliminate peak points that can cause gapping between the headband and your head. Together, the front and back headband settings should provide enough height so the helmet is not rubbing the tops of the ears.

Cushioning

Cushioning that wraps around the sides and front of the headband increases comfort by dissipating the pressure a tightened headband places on the wearer.

Weight

Unnecessary weight is seldom a good thing for firefighters. It can increase your metabolic stress and reduce your stamina in high-exertion situations. So why would someone want a heavier helmet? There's a myth that a heavier helmet gives additional protection. Advanced composite technology proves this wrong. In fact, the weight of the helmet has almost no correlation to its ability to withstand impact penetration or heat.

Custom-Colour Helmets

The Colour Lasts Because it's Molded Throughout

Custom-colour helmets employ Resin Transfer Molding technology for lasting good looks, just like our standard colour helmets. This means there is colour pigmentation throughout the shell. If you nick or scratch your helmet, there is no glaring white spot. No touch up paint is required.

Increase Visibility with Custom-Colour Helmets

LION's custom-colour molding process can mold any colour into a fire or rescue helmet, including Safety Yellow. Visibility is essential to firefighter and rescue worker safety. The easier and sooner you can be seen, the safer you are. A custom-colour helmet allows you to use colours that reflect longer waves of light than the traditional **Black, Yellow, Red, Orange, Blue or White**. This means you can be seen sooner and at a greater distance. That's pretty important when you're working on the side of a road or highway.

While safety is our motivation, the custom-colour molding process also offers other benefits to departments. For instance, university departments have ordered helmets that match the school colours. All you need to do is provide a sample of the colour or the **Pantone Matching System (PMS)** number.



American Classic™

Traditional Looks, Optimum Comfort And Protection



The American Classic combines the looks of a traditional-style helmet with the lighter weight and high-performance protection of state-of-the-art fiberglass technology.

EXCLUSIVE FEATURES

Shell

Fiberglass shell employs exclusive patented TherMax™ composite technology to ensure thermal protection, light weight and structural integrity of the entire shell. RTM molding provides colour pigmentation throughout for lasting good looks. Additional thermal protection is provided by the Classic's removable thermal insulator and thermoplastic liner.

Suspension

Patented Center of Gravity™ adjustment system lets you set the center of gravity to your liking and keeps it positioned in place. The suspension system is removable for easy inspection, cleaning or maintenance.

Height Adjusters

Provide three different headband height positions.

Ratcheting Headband

Adjusts from size 5½ to 11. Headband is cushioned with foam and covered with black knit Nomex® for comfort and secure fit. Other materials available upon request.

Eye Protection

Choose from:

- High temperature 4" APEC faceshield with thumbwheel adjustments
- ESS goggles
- Flip downs with goggles (can be purchased without goggles, but will not be NFPA compliant)

Edge Binding

Aluminum core edge binding is durable, but light.



Chinstrap

Easy-to-adjust, quick-release chinstrap with postman's slide.

Ear Covers

Black DuPont™ Nomex® brand fibre/flannel ear covers for added neck/ear protection. Other materials/colours available upon request as replacement parts.

Shield Holder

Hand-carved brass eagle leather shield holder.

3M™ Scotchlite™ Reflective Material (2" x 2½" lime-yellow trapezoids)

Has excellent heat resistance and maintains brightness and colour after heat exposure.

Colours

Available in Yellow, Black, White, Red, Blue, Orange or Natural. Custom colours available upon request.

Legacy 5™

Low-Profile, Modern-Style Helmet For Superior Balance And Stability



The Legacy 5 balances the factors of safety, comfort and cost. The modern styling of the helmet offers lighter weight, lower profile and better interfaces than traditional-style helmets. It has a tough, durable fibreglass shell with excellent thermal resistance.

EXCLUSIVE FEATURES

Shell

State-of-the-art fibreglass materials for light weight and structural integrity. RTM technology provides colour pigmentation throughout the shell.

Impact Cap

Lexan®/ABS dome encapsulated with urethane foam for outstanding thermal resistance.

Suspension

Patented Center of Gravity™ adjustment system lets you set the center of gravity to your liking and keeps it positioned in place.

Height Adjusters

Provide three different headband height positions.

Ratcheting Headband

Adjusts from size 5½ to 11. Headband is cushioned with foam and covered with black knit DuPont™ Nomex® brand fibre for comfort and secure fit.

Eye Protection

Choose from:

- High temperature 4" APEC faceshield with spring-loaded Safety-Set® brackets or thumbwheel adjustments
- ESS goggles

Edge Binding

Aluminum core edge binding is durable, but light.

Chinstrap

Easy-to-adjust, quick-release chinstrap with postman's slide.



Ear Covers

Yellow Nomex®/flannel ear covers for added neck/ear protection. Other materials/colours available upon request as replacement parts.

3M™ Scotchlite™ Reflective Material (1" x 4" lime-yellow bars)

Has excellent heat resistance and maintains brightness and colour after heat exposure.

Colours

Available in Yellow, Black, White, Red, Blue, Orange or Green. Custom colours available upon request.



The American Heritage combines time-honored styling and craftsmanship with state-of-the-art advancements in design, leather tanning and composites. The result is a low-profile leather helmet that is attractive, durable and comfortable.

EXCLUSIVE FEATURES

Leather Shell

State-of-the-art chromium tanning process to seal protective qualities and colour and to deflect heat. Won't chip or bubble like painted leather helmets.

LeatherGlas™ One-Piece Construction

Process bonds fibreglass composite between the outer and inner layers of the leather shell for superior strength and durability during extreme conditions.

Suspension

Patented Center of Gravity™ adjustment system lets you set the center of gravity to your liking and keeps it positioned in place.

Height Adjusters

Provide three different headband height positions.

Ratcheting Headband

Adjusts from size 5½ to 11. Headband is cushioned with foam and covered with leather for comfort and secure fit.

Eye Protection

Choose from:

- High temperature 4" APEC faceshield with thumbwheel adjustments
- ESS goggles
- Flip downs with goggles (can be purchased without goggles, but will not be NFPA compliant)

Edge Binding

Aluminum core edge binding is durable, but light.

Chinstrap

Easy-to-adjust, quick-release chinstrap with postman's slide.



Ear Covers

Black DuPont™ Nomex® brand fibre/flannel ear covers for added neck/ear protection. Other materials/colours available upon request as replacement parts.

Shield Holder

Hand-carved brass eagle leather shield holder.

3M™ Scotchlite™ Reflective Material (2" x 2½" lime-yellow trapezoids)

Has excellent heat resistance and maintains brightness and colour after heat exposure.

Colours

Available in Yellow, Black, White, Red, Blue, Orange or Natural.



Rebel™ & Commander™ Structural Fire Gloves



LION Rebel™

Optimal Protection, Dexterity & Comfort

- A dynamic, three-dimensional design features a 14-piece ergonomic shell that allows for maximum dexterity and comfort.
- Shell is constructed of heat-resistant Aramid knit, reverse goat hide, and top grain cow hide.
- CROSSTECH® glove insert with film technology and Kovenex® thermal lining offers superior liquid penetration resistance, thermal protection and fingertip control.
- Combined glove components are flexible, durable and provide added protection against cuts and sharp objects.
- Available in Kevlar® wristlet and gauntlet style
- Colour: Black with gold palm accent
- Sizes: 2XS-5XL

LION Commander™

Combination Liner with Enhanced Back-of-the-Hand Protection

- Enhanced gunn-cut pattern provides increased comfort and better wear. Two middle fingers sewn separately to palm and integrating to a three-piece back provide 3D type performance and feel with gunn-cut wear.
- Shell constructed of 100% Eversoft side-split cowhide leather enhanced through double-chrome tannage. Provides outstanding thermal resistance, long-lasting water repellency and superior softness.
- Glove breathes in wet conditions and stays soft and pliable when air-dried
- Side-split leather shell has looser fibre structure which provides more air space for peak insulation performance in high-heat conditions. Dexterity improves with each use.
- Next-generation CROSSTECH Glove Insert is fully bonded to a form-fitting thermal liner to create a “3D” combination of thermal liner and moisture barrier. This results in better flexibility, less bulk in the palm and improved dexterity.
- Available in Kevlar wristlet or gauntlet style
- Colour: Solid Ocean Blue or combination Gold/Black
- Sizes: XXS-2XL and 3XL and 4XL extended sizes

Commander Ace™ Structural Fire Gloves



LION COMMANDER ACE™

All existing features of "Commander" gloves plus more

- Enhanced gunn-cut pattern provides increased comfort and better wear. Two middle fingers sewn separately to palm and integrating to a three-piece back provide 3D type performance and feel with gunn-cut wear.
- Shell constructed of 100% Eversoft side-split cowhide leather enhanced through double-chrome tannage. Provides outstanding thermal resistance, long-lasting water repellency and superior softness.
- Glove breathes in wet conditions and stays soft and pliable when air-dried
- Side-split leather shell has looser fibre structure which provides more air space for peak insulation performance in high-heat conditions. Dexterity improves with each use.
- Next-generation CROSSTECH Glove Insert is fully bonded to a form-fitting thermal liner to create a "3D" combination of thermal liner and moisture barrier. This results in better flexibility, less bulk in the palm and improved dexterity.
- Available in Kevlar wristlet or gauntlet style
- Improved leather gauntlet cuff for easier donning and doffing
- Lite-N-Dri in back of hand for advanced thermal protection
- Colour: Solid black
- Sizes: 2XS – 4XL



Starfield™

Defender™ & Patriot™ 3-Layer Structural Fire Gloves



LION Defender™ & Patriot™ Traditional Three-Layer Structural Firefighting Glove

- Gunn-cut pattern provides increased comfort and better wear. Two middle fingers sewn separately to palm for a single-piece seamless back that provides increased comfort and better wear.
- Shell constructed of 100% Eversoft side-split cowhide leather enhanced through double-chrome tannage. Provides outstanding thermal resistance, long-lasting water repellency and superior softness.
- Glove breathes in wet conditions and stays soft and pliable when air-dried.
- Side-split leather shell has looser fibre structure which provides more air space for peak insulation performance in high-heat conditions. Dexterity improves with each use.
- Thermally stable CROSSTECH® moisture barrier liners for liquid penetration resistance.
- Flame-resistant, modacrylic/cotton blend knit thermal liner offers thermal stability. Does not pose a melting hazard during fireground conditions.
- Kevlar® wristlet or gauntlet style cuff.
- Defender Colour: Medium Blue or combination Gold/Black
- Patriot Colour: Gold
- Sizes: XXS-2XL and 3XL and 4XL extended

Non-NFPA Light-Duty, Extrication & Cold Weather Gloves



LION Spirit™

CAL-OSHA Glove with Lightweight Thermal Liner for Light-Duty Protection

- Gunn-cut pattern provides increased comfort and better wear. Two middle fingers sewn separately to palm for a single-piece seamless back that provides increased comfort and better wear.
- Shell constructed of thermal resistant side-split cowhide leather
- Flame-resistant, modacrylic/cotton blend knit thermal liner offers thermal stability. Does not pose a melting hazard during fireground conditions.
- White Nomex® wristlet or gauntlet style cuff
- Colour: Medium Blue
- Sizes: XXS-2XL and 3XL and 4XL extended sizes

LION XTreme™

No-Barrier Extrication Glove

- Three-dimensional design for optimal dexterity and flexibility
- Tough nylon outer shell with Armortec palm and finger patches for outstanding dexterity and puncture resistance
- Reflective material on back of glove for high visibility in nighttime extrications
- Colour: Black/Lime-Yellow
- Sizes: XS-2XL

LION Cold Weather

Work Glove

- Provides hand protection and warmth during cold temperatures
- "Hi-Vis" lime-yellow on back of hand and reflective accents provide high visibility.
- Thermal liner and waterproof membrane keep warmth in and water out
- Gauntlet style wrist with take up strap and additional cuff toggle closure
- Colour: Black/Lime-Yellow
- Sizes: XS-2XL

LIONFireAcademy.com Online PPE Usage & Maintenance Program

LION Fire Academy is your FREE online destination for PPE resources and education. Whether you're a student or instructor, you'll find videos, training aids and links on all things PPE. Upon successful completion of the full LION Fire Academy program, you'll also receive Continuing Education Units (CEUs).

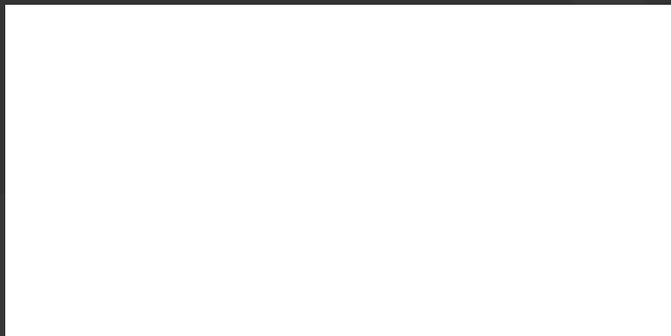
LION Fire Academy offers:

- **NFPA PPE Safety & Use Instruction**
Learn what every firefighter should know before using NFPA 1971 compliant gear through an in-depth, 12-part video series. Take the test after each video to earn your PPE Safety and Use Certificate.
- **NFPA 1851 Training**
This video series trains you to perform Advanced PPE Inspections, Advanced PPE Cleaning and Basic PPE Repairs. Take the test afterwards to earn your Manufacturer Trained Personnel Certificate.
- **LION Product Training**
Instructional videos about the fit, form and functionality of LION PPE products.

To learn more or start your LION Fire Academy training, visit us online at www.lionfireacademy.com.



Learn more about Starfield LION products and services at www.starfieldlion.com



Flame Fighter, Flex Knee, Handi-Pouch, Kick Shields, Move-N-Hance, Orbit, Protec, Quick Start, Stay-Dry, Stay Rite, Stepped Up, Thermashield and Ultimate are tradenames of Starfield LION.

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PBO is a registered trademark of Toyobo.



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ready for action



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