

LAKELAND'S FR/AR LAYERING SYSTEM — EACH LAYER HAS A PURPOSE

Whatever the weather...sizzling 90 degree summer days, or -10 degrees with wind chill and blowing snow, Lakeland's FR/AR Layering System offers the performance, protection and comfort you need.

Permanent Moisture Wicking properties engineered with Inherently FR Fabrics ensure your year-round comfort and safety.

BASE



MID



OUTER



BASE layers are the foundational key to the Lakeland FR/AR Layering System. For you to be cool during those hot summer days, and warm when its frigid cold outside, you need to be dry. BASE layer shirts have the optimal 60/40 blend of hydrophobic and hydrophilic fibers to constantly pull moisture away from your body, move it to the outer surface of the garment, and allow it to dry. Staying dry is the key to keeping you comfortable and better protected.

MID layers are the versatile garments that can help take the chill off for a few hours on a fall morning or provide an extra layer of insulation for those long, frigid winter days. Paired with a BASE layer, MID layers continue to pull moisture away from your body and move it to the outermost garment so it can dry. Lightweight, effective fabrics let MID layers increase comfort without reducing mobility.

OUTER layer garments complete the Layering System, giving you the comfort and protection, you demand. Moisture wicking fabrics continue the process of pulling moisture away from your body to the outermost layer so that it can dry, while the wind resistant / water resistant fabrics help keep the elements at bay so you can focus on the task at hand.

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MOISTURE WICKING FABRICS: THE KEY TO COOL SUMMERS AND WARM WINTERS

Why Moisture Wicking Matters

Choosing an FR garment is important to protect you from the dangers on the job. Choosing FR garments with superior moisture wicking technology will protect you in other important ways, all year long.

- *Help Prevent Heat Stress*
Staying cool in hot temperatures will help keep you safe from overheating and heat stroke.
- *Provide an Effective Base Layer*
Staying warm during the winter months starts with fabrics that can quickly pull sweat away from your skin to keep you warm and dry, not cold and clammy.

Moisture-wicking Fabrics and Technology

Moisture-wicking fabrics were originally created to help boost athletic performance in extreme outdoor situations by keeping athletes drier and cooler in hot conditions, and warmer and drier in cold weather.

The original moisture-wicking fabrics started with a synthetic fiber, like polyester, and the application of a chemical finish which allowed moisture to spread. Eventually the finish would wash out and the fabric lost its wicking abilities. These “original” fabrics are still in the marketplace and can be easily identified.

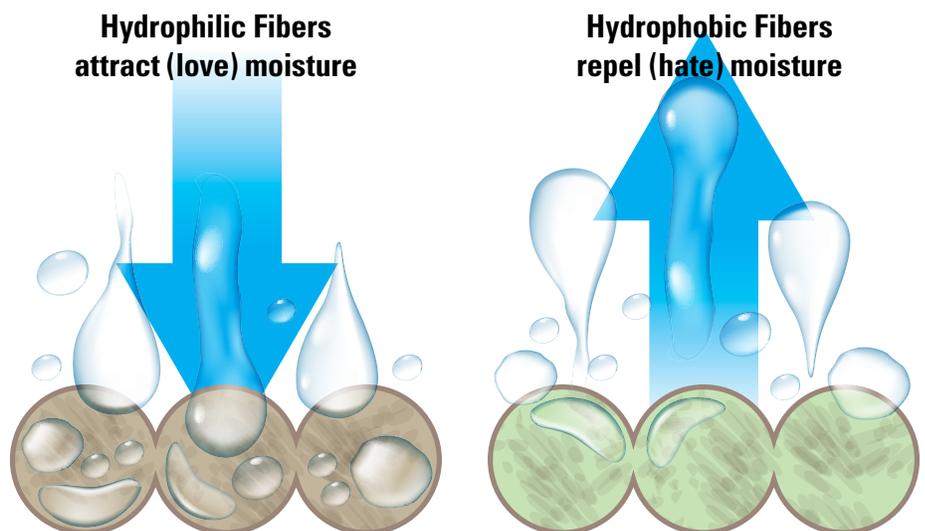


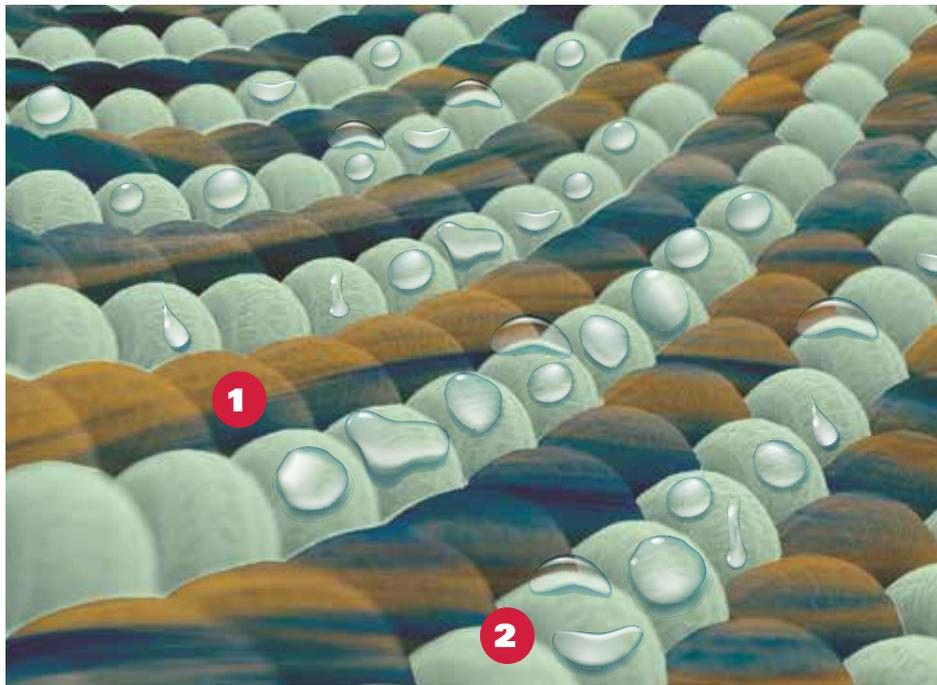
What are Moisture Wicking Fibers?

Superior moisture wicking fabrics combine two types of fibers together: **hydrophobic** (water hating) fibers and **hydrophilic** (water loving) fibers. Hydrophobic fibers are synthetic, and include nylon, aramids and modacrylics. Hydrophilic fibers feel natural against the skin, and include cotton, wool and lyocell, to name a few.

The combination of fibers, spun together with precision, result in a garment with permanent moisture wicking technology.

Checking the tag on a garment will reveal its blend of fibers. A garment with 100% of any fiber, along with claims of moisture-wicking, identifies the presence of a fabric with a chemical finish.





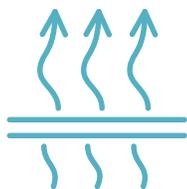
How Does Moisture Wicking Work?

The act of wicking moisture away from the body is rooted in science. A superior moisture wicking garment will:

1. Absorb moisture and sweat with hydrophilic fibers
2. Push moisture and sweat away from the body with hydrophobic fibers, then pull the moisture and sweat through the garment to the outside for quick dispersion and drying

Lakeland High Performance FR apparel takes moisture wicking to the next level, because how quickly you feel dry and comfortable matters all year long. All High Performance FR Fabrics from Lakeland incorporate these key features to pull moisture from your body and help it dry quickly so you can stay comfortable regardless of the temperature or season.

Air Permeability



Breathability of the fabric, or air permeability, is important to keep you cool on the job.

Vertical Moisture Wicking



Vertical moisture wicking measures how well a garment pulls moisture off of your skin into the fabric.

Transport of Moisture



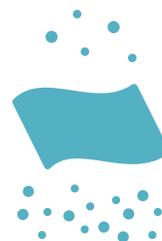
Transport of moisture refers to a garment's ability to move moisture through the fabric to the outside surface.

Spread of Moisture



Spread of moisture measures how quickly moisture spreads on the surface. The faster it spreads dictates how quickly you will feel dry.

Water Vapor Transmission Rate



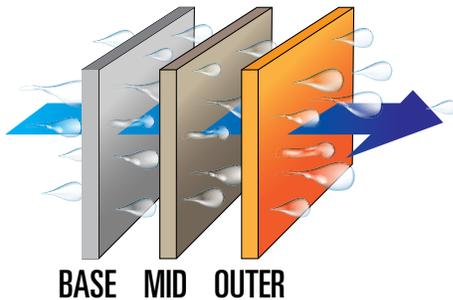
Water vapor transmission rate measures how quickly moisture dissipates through a garment.

FR LAYERING FOR WARM, DRY WINTERS

Understanding FR Layering Systems

A layering system is designed specifically to work together, layer by layer, to keep you dry and warm. Starting with a base layer that consists of permanent moisture-wicking fibers, each additional outer layer should have the same characteristics – keep out the elements and wick moisture away from your body.

- The base layer (or next-to-skin garment) must offer permanent moisture-wicking capabilities, to pull sweat off your skin quickly to keep you feeling dry. Why? Because a moisture-wicking chemical finish will eventually wash away.
- Every additional layer, whether it is a button up shirt, hooded sweatshirt or jacket, must all be created with permanent moisture-wicking capabilities to **pull moisture through the fabric and dissipate the moisture on the outer surface.**



- If moisture gets trapped between layers, you'll begin to feel damp and cold. All layers must work together to keep the elements out and wick moisture away so you can stay dry and maintain warmth.

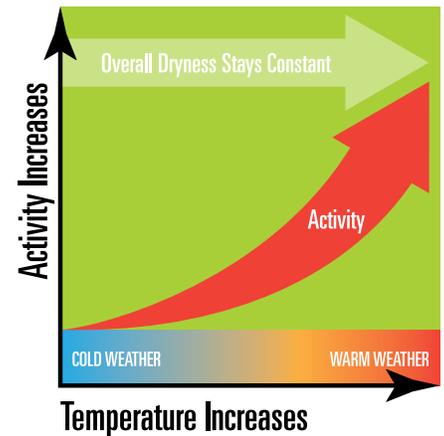
Understanding the correct way to layer apparel to maintain body temperature, dryness and protection from the elements takes more than just a system, it takes a system with the right fabrics and technology.

Moisture-wicking Matters for Warmth

As you add and remove layers in cold weather climates, you rely on your FR garments to offer you protection, comfort and dryness.

Lakeland FR garments feature a 60/40 hydrophobic/hydrophilic fiber blend which means you are getting the optimal moisture-wicking benefits from your apparel.

As your activity level increases, you shouldn't notice a difference in overall dryness. Permanent moisture-wicking fibers in your layering system should work to keep you dry with every added layer so you never feel wet on the job.



As temperatures fluctuate, your layering system should work with you to keep you both dry and warm. Your mobility level should not be compromised by your FR clothing. A layering system designed to function effectively in every climate, regardless of activity level, is the ultimate goal.



Every layer of apparel you wear on the job matters.

Each layer should include permanent moisture-wicking to ensure the effectiveness of your total system. Next to skin is most important for cooling and dryness but each layer must move moisture away from the body.

Working in the cold is no easy task. As you work in freezing, unforgiving winter weather, the ability to effectively layer protective apparel is essential, not only for safety, but also for flexibility and optimal performance as temperatures and the elements outside fluctuate.

Lakeland's hoodie and jacket are wind proof and water-resistant PLUS moisture wicking. Keeping out the elements while moving moisture away from your body is the key to the performance of an effective layering system.

BASE

MID

OUTER



UNDERSTANDING ARC FLASH PROTECTION WHEN LAYERING GARMENTS

BASE



High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm²

MID



Westex® DH Shirt
ATPV: 8.9 cal/cm²

+ **=** **28 cal/cm²**
CAT 3



High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm²

+ **=** **43 cal/cm²**
CAT 4



High Performance FR
8.0 oz Waffle Cut FR
ATPV: 9.7 cal/cm²



High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm²

+ **=** **45 cal/cm²**
CAT 4



High Performance FR
Sweater Knit
ATPV: 14 cal/cm²

When wearing multiple garments, that specific combination of clothing must be tested together to determine their effective arc rating. Lakeland's FR/AR Layering System offers some of the highest levels of protection in the industry. Add the benefits of inherent FR properties, lightweight fabrics and permanent moisture wicking technology and you have superior performance, protection and comfort.

BASE + **MID** + **OUTER** = **57 cal/cm² CAT 4**

High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm²

High Performance FR
8.0 oz Waffle Cut FR
ATPV: 9.7 cal/cm²

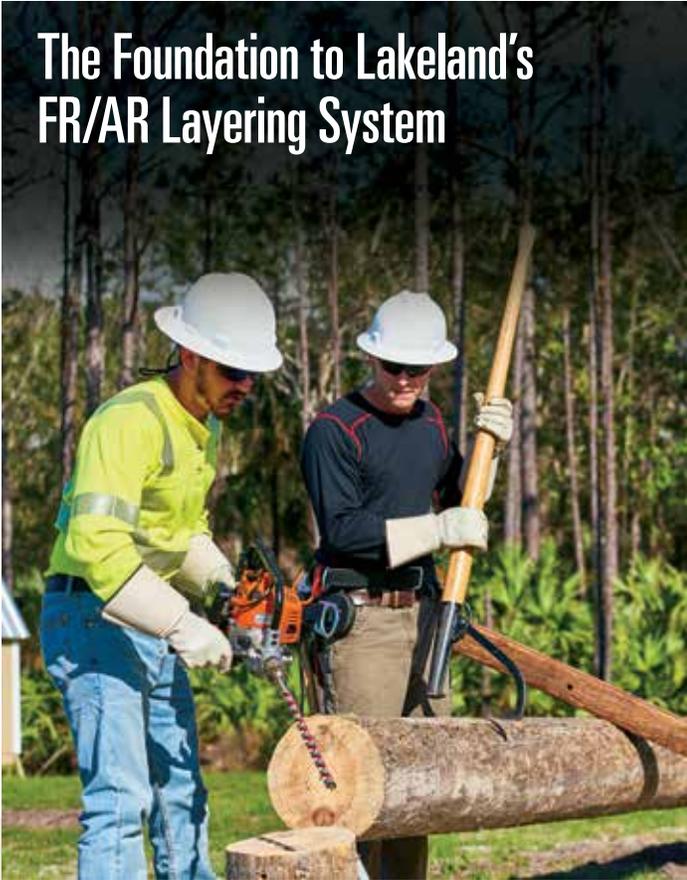
High Performance FR Zip Jacket
ATPV: 28 cal/cm²

High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm² + Westex® DH Shirt
ATPV: 8.9 cal/cm² + High Performance FR Zip or Pullover Hoodie
ATPV: 28 cal/cm² = **58 cal/cm² CAT 4**

High Performance FR Knit
(long sleeve or long sleeve Henley style)
ATPV: 16.4 cal/cm² + Westex® DH Shirt
ATPV: 8.9 cal/cm² + High Performance FR Zip Jacket
ATPV: 28 cal/cm² = **60 cal/cm² CAT 4**

MEN'S HIGH PERFORMANCE FR KNITS

Lightweight | Inherently FR | Permanent Moisture Wicking



The Foundation to Lakeland's FR/AR Layering System

MAXIMUM PROTECTION AND MAXIMUM FEATURES

- Unparalleled CAT 2 protection at 16.4 cal/cm²
- NFPA 70E and NFPA 2112 - UL Certified
- Moves moisture away from your body faster, from front to back, to spread quicker for superior drying
- Excellent breathability
- Soft and comfortable
- Hi-Vis versions feature 3M Scotchlite® Segmented Reflective trim, meeting ANSI 107 Class 3 for visibility
- NEW! Hi-Vis reflective trim allows for corporate logo imprint over pocket

Specifications:

Fabric: 6.95 oz. Inherently FR Lightweight Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 16.4 cal/cm² **CAT:** 2

Sizes: Small – 6XL, Talls Available MD-4X

Colors: Available in Black, Khaki, Heather Gray, Hi-Vis Yellow with 3M™ Scotchlite™ Reflective Material for enhanced visibility



High Performance Knit Features

- Drop shoulder design
- No seam on top of shoulder or under arm
- Left chest pocket
- Flat Seam Construction for greater comfort and no chafing
- Rolled side seam to front and back for superior comfort



Tag free collar for greater comfort



Sleeve labeling quickly identifies garment standards

NEW

Room above the pocket for your corporate logo





16.4 cal

SSCAT

Men's Short Sleeve Crew with Pocket



16.4 cal

LSCAT

Men's Long Sleeve Crew with Pocket



16.4 cal

HSAT

Men's 3-Button, Long Sleeve Henley with Pocket

High Performance FR Hi-Vis Knits



16.4 cal

SSCAT29RT

Men's Hi-vis Short Sleeve Crew with Pocket and Hi-vis Reflective Trim



16.4 cal

LSCAT29RT

Men's Hi-vis Long Sleeve Crew with Pocket and Hi-vis Reflective Trim



16.4 cal

HSAT29RT

Men's Hi-vis 3-Button, Long Sleeve Henley with Pocket and Hi-vis Reflective Trim

WOMEN'S HIGH PERFORMANCE FR KNITS

Lightweight | Inherently FR | Permanent Moisture Wicking



LSCWAT06



LSCWAT20

FR/AR Protection Tailored for Women!

At last! High Performance protection for Women! These High Performance FR knit shirts have the same FR/AR Protection as the men's styles yet are constructed with classically tailored details for a more accurate women's fit.

- Unparalleled Cat 2 protection at 16.4 cal/cm²
- NFPA 70E and NFPA 2112 - UL Certified
- Moves moisture away from your body faster, from front to back, to spread quicker for superior drying
- Excellent breathability
- Soft and comfortable

Style Numbers:

LSCWAT – Women's Long Sleeve Crew

HSWAT – Women's 3-Button, Long Sleeve Henley

Specifications:

Fabric: 6.95 oz. Inherently FR Lightweight Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 16.4 cal/cm²

CAT: 2

Sizes: XS - 4X, Talls Available MD - 2X

Colors: Available in Heather Gray and Khaki





HSWAT06



HSWAT20



HIGH PERFORMANCE FR KNIT BUTTON-UP

Lightweight | Inherently FR | Permanent Moisture Wicking

NEW

The ONLY 16 cal button up shirt in the Industry. You will love the look and feel. Featuring Lakeland's lightweight knit fabric offering permanent moisture wicking technology. The optimal fabric blend for superior performance, protection and comfort.

- 6.9 oz. Lightweight Knit
- Inherently FR
- Permanent Moisture Wicking
- Excellent Mid Layer Option
- Shirt Features:
- Button-Down Collar
- Athletic Cut
- Tag Free Collar for Greater Comfort
- Two Chest Pockets
- Hi-Vis Style meets ANSI 107 Class 3

Style Numbers:

ISHAT

Specifications:

Fabric: 6.9 oz. Inherently FR Knit Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 16.4 cal/cm²

CAT: 2

Sizes:

Khaki and Gray: SM-5XL, Talls Available MD - 4X

Hi-Vis: XS-5XL, Talls Available MD - 4X

Colors: Available in Khaki, Gray and Hi-Vis Yellow



16.4 cal

ISHAT06



16.4 cal

16.4 cal

ISHAT20

ISHAT29RT



The ONLY

16 cal

Button-up shirt in the industry!

6.5 OZ. WESTEX® DH BUTTON-UP SHIRTS

Lightweight | Inherently FR | Permanent Moisture Wicking



ISH65DH

Westex®
DH

Drop shoulder design

Button-down collar

Left pocket with pen slot

Athletic cut



Tag free collar for greater comfort



Long rounded tail keeps shirt tucked in for neater appearance



Button closure keeps pockets secure



Never lose a pen with the left pocket pen slot

Perfect for Mid-layer Protection!

- Inherent moisture management
- 6.5 oz. lightweight inherently FR fabric
- Dual Hazard Protection for Arc Flash and Flash Fire
- NFPA 2112 - UL Certified
- NFPA 70E, CAT 2
- Excellent breathability
- FR protection cannot be washed out or worn away
- Soft and Comfortable
- Hi-Vis Style meets ANSI 107 Class 3

Style Numbers:

ISH65DH

Specifications:

Fabric: 6.5 oz. Westex® DH, Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 8.9 cal/cm² **CAT:** 2

Sizes: Small – 6XL, Talls Available MD-4X

Colors: Available in Navy Blue, Khaki, Gray, Medium Blue, Royal Blue and Hi-Vis Yellow





Westex[®]
DH

ISHW65DH



3M
Scotchlite[™]
Reflective Material

ISHW65DH29RT

WOMEN'S 6.5 OZ. WESTEX[®] DH BUTTON-UP SHIRTS

Lightweight | Inherently FR |
Permanent Moisture Wicking

Designed with a classically tailored women's cut, combined with built-in FR protection. Comfortable function all day, in all types of working conditions.

- Inherent moisture management
- 6.5 oz. lightweight inherently FR fabric
- Dual Hazard Protection for Arc Flash and Flash Fire
- NFPA 2112 - UL Certified
- NFPA 70E, CAT 2
- Excellent breathability
- FR protection cannot be washed out or worn away
- Soft and Comfortable
- Hi-Vis Style meets ANSI 107 Class 3

Style Numbers:

ISHW65DH
Women's Khaki Button Down
ISHW65DH29RT – Women's Hi-Vis
Yellow with Reflective Striping

Specifications:

Standard: NFPA 70E,
NFPA 2112 - UL Certified
ATPV: 8.9 cal/cm² **CAT:** 2
Sizes: XS - 3X, Talls Available MD - 3X
Colors: Available in Khaki and
Hi-Vis Yellow



HIGH PERFORMANCE FR WAFFLE

Exclusive Waffle Cut Fabric

NEW



LSCMWZ

NEW



LSCMWH

Waffle Cut FR Quarter Zip

Exclusively from Lakeland!

Waffle Cut Fabric meets High Performance FR Design for the ultimate MID Layer Garment.

- Quarter Zip Design
- Lightweight MID Layer Fabric
- Permanent Moisture Wicking
- Soft hand with a bit of added stretch for comfort
- NFPA 2112 - UL Certified
- NFPA 70E, CAT2

Style Numbers:

LSCMWZ

Specifications:

Fabric: 8.0 oz. Waffle Cut Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 9.7 cal/cm² **CAT:** 2

Sizes: XS - 5XL, Talls Available MD - 5X

Colors: Black



Waffle Cut FR Hoodie w/ Neck Gaiter

Exclusively from Lakeland!

Waffle Cut Fabric meets High Performance FR Design for the ultimate MID Layer Garment.

- Pullover Hoodie Design
- Integrated Neck Gaiter for additional protection of neck, mouth and nose
- Lightweight MID Layer Fabric
- Permanent Moisture Wicking
- Soft hand with a bit of added stretch for comfort
- NFPA 2112 - UL Certified
- NFPA 70E, CAT2

Style Numbers:

LSCMWH

Specifications:

Fabric: 8.0 oz. Waffle Cut Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 9.7 cal/cm² **CAT:** 2

Sizes: XS - 5XL, Talls Available MD - 5X

Colors: Black



HIGH PERFORMANCE FR SWEATER-KNIT

Lightweight | Inherently FR | Permanent Moisture Wicking

NEW



LSCSK06

Sweater-Knit FR Quarter Zip... Outside Tough, Inside Soft, Warm All Around!

It's hard to believe this is FR. Lakeland's new High Performance FR Sweater-Knit is the soft and comfortable FR pullover you need when the weather turns cold. Flat seam construction with contrasting black threads will have you looking good, while permanent moisture-wicking technology and incredible horizontal stretch will keep you comfortable. The Sweater-Knit's unique design makes for an extremely comfortable and mobile fit. Wear it as a single layer or utilize as a MID layer in Lakeland's FR Layering System.

- Inherently FR Sweater Knit Fabric
- NFPA 70E - CAT2 at 14.0 cal/cm²
- Permanent Moisture Wicking Technology

Style Numbers:

LSCSK06

Specifications:

Fabric: 11.0 oz. Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 14.0 cal/cm²

CAT: 3

Sizes: XS - 5XL, Talls Available MD - 4X

Colors: Gray



HIGH PERFORMANCE FR POLAR FLEECE

Lightweight | Inherently FR | Permanent Moisture Wicking

NEW



IJKTPF01

High Performance FR Polar Fleece Pullover... Sporty, Yet Made to Perform!

Lakeland's new High Performance FR Polar Fleece combines two different fleece fabrics for comfort and durability, with a sporty black and gray color-block design. At 12 oz, this jacket is your go-to jacket for all season. To add warmth and strength, we constructed the sleeve tops and yoke of the garment with the same Gray Fabric utilized in the High Performance FR Jacket, coupled with a fuzzier, cozier fleece that surrounds the torso. Featuring inherent, permanent moisture-wicking technology so you stay cool and dry all year long. Wear as a single layer or as a MID layer in Lakeland's FR Layering System.

FR Fabric Features (Top Jacket):

- 12 oz. Lightweight Inherently FR Fabric
- NFPA 70E CAT 3 at 28 cal/cm²
- Permanent Moisture Wicking

Fleece Fabric Features:

- 11.5 oz. Lightweight Inherently FR Fabric
- NFPA 70E CAT 4 at 40 cal/cm²
- Permanent Moisture Wicking

Style Numbers:

IJKTPF01

Specifications:

Top Jacket

Fabric: 12.0 oz. Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 28 cal/cm²

Fleece Fabric

Fabric: 11.5 oz. Inherently FR Fabric

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 40 cal/cm²

Sizes: XS - 5XL, Talls Available MD - 4X

Colors: Gray/Black



HIGH PERFORMANCE FR HOODIES

Dual Hazard | Wind and Water Resistant



28 cal



NEW

Hi-Vis!

3M
Scotchlite™
Reflective Material

28 cal



28 cal

Choose Zip Front or Pullover!

Pull-Over or Zip Hoodies That Are Made To Perform!

- Permanent moisture wicking
- Inherently FR Fabric
- Dual certified – NFPA 70E, NFPA 2112 - UL Certified
- Front hand warmer pockets
- Sleeves feature rib-knit cuffs
- Wind and Water Resistant

Style Numbers:

- IHDP12ANT – Pullover Hoodie
- IHDP12ANT29RT _ Hi-Vis Pullover Hoodie with Reflective Trim
- IHD12ANT – Zipper Front Hoodie

Specifications:

Fabric: 12.3 oz, wind proof, water resistant

Fabric Content: 48% modacrylic, 37% Tencel®, 10% Twaron®, 5% Spandex®

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 28 cal/cm² **CAT:** 3

Sizes:

Pullover:

XS - 5XL, Talls Available MD - 4X

Zip Front:

SM - 5XL, Talls Available MD - 5X

Color: Black or Hi-Vis Yellow



HIGH PERFORMANCE FR JACKETS

Dual Hazard | Wind and Water Resistant



NEW

Hi-Vis!

28 cal

3M
Scotchlite™
Reflective Material

Outer-layer Jacket That Offers Protection with Superior Comfort!

- Permanent moisture wicking
- Inherently FR Fabric
- Dual certified – NFPA 70E, NFPA 2112 - UL Certified
- Smooth finish is extremely abrasion resistant and prevents snagging
- Front hand warmer pockets
- Wind and Water Resistant

Style Numbers:

IJK12ANT – Jacket
IJK12ANT29RT – Hi-Vis Jacket with Reflective Trim

Specifications:

Fabric: 12.3 oz, wind proof, water resistant

Fabric Content: 48% modacrylic, 37% Tencel®, 10% Twaron®, 5% Spandex®

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 28 cal/cm² **CAT:** 3

Sizes: XS - 5XL, Talls Available MD - 4X

Color: Heather Gray or Hi-Vis Yellow



High Performance FR Camo Jacket



14.6 cal

- Inherently FR Fabric
- Smooth finish is extremely abrasion resistant and prevents snagging
- Four 6" zipper pockets (2 hand pockets, 1 left chest pocket, 1 arm/sleeve pocket)
- Wind and water resistant

Style Numbers:

JKTAT30 – FR Camouflage Jacket

Specifications:

Fabric: 7.3 oz, Inherently FR, wind proof, water resistant

Standard: NFPA 70E, NFPA 2112 - UL Certified

ATPV: 14.6 cal/cm² **CAT:** 2

Sizes: Sizes: SM - 4XL
Talls Available LG - 4X

Color: Camo

