

# HI-VIS APPAREL

FR ARC RAIN FR MODACRYLIC VESTS HIGH PERFORMANCE FR OUTERWEAR GENERAL HI-VIS



FR/ARC Rainwear  
Page 4



FR Modacrylic  
Hi-Vis Vests  
Page 14



High Performance  
FR Hi-Vis Garments  
Page 22



Hi-Vis Outerwear  
Page 32



Hi-Vis Vests  
and Accessories  
Page 36



**Lakeland®**



CONTENT



PROTECTING WORKING PROFESSIONALS SINCE 1982

Lakeland Industries is a global manufacturer of personal protective equipment, specializing in FR/AR Clothing, Disposable - Chemical Protection and Fire Protective apparel. For over 35 years Lakeland has provided products to the working professionals in Electric and Gas Utilities, the Oil and Gas Industry, General Manufacturing and the Petrochemical sectors, keeping workers both safe and comfortable on the job.



# FR ARC POLYURETHANE RAINWEAR



## POLYURETHANE FR/ARC RATED RAINWEAR... PREMIUM FEATURES! UNBEATABLE VALUE!

Lakeland Arc® X Polyurethane FR/ARC Rated Rainwear offers Superior Performance and Features:

**More Comfortable**

- Cooler: Breathes and releases perspiration
- Softer and more flexible than other rainwear fabrics
- Polyurethane stays flexible in cold weather
- Lighter weight

**More Durable for Longer Wear Cycle**

- Softness and pliability make it less prone to get caught on branches and brushes and not tear
- Superior puncture, tear and abrasion resistance
- Reinforced HF sealed seams for maximum strength
- Innovative DRP™ Diamond Reinforced Patch to prevent crotch “blowout”
- Saves money in the long run

Specifications	
Fabric:	10.0 oz. <sup>2</sup> Polyurethane over FR cotton knit
Arc Rating:	CAT 2/ 16.3 Cal/cm2
Ebtas:	21.9 Cal/cm2
HAF:	84%
MVTR:	305G/M <sup>2</sup> /24H
Total % Body Burn:	19.67%
3rd Degree Body Burn:	6.55%
Jacket Certification:	ANSI/ISEA 107-2015 Type R Class 3
Bib Pants Certification:	ANSI/ISEA 107-2015 Class E
Test Methods:	ASTM F1891 Standard Arc Flash ASTM F2733 Standard Flash Fire ASTM F903 Standard Chemical





AJPU10LY

AJPU100R

**Arc® X PU Rain Jacket**  
AJPU10LY - Hi-Vis Yellow  
AJPU100R - Orange

- Oversized hood
- D-ring pass through
- Vented back
- Hand-warmer pockets

Sizes: Small- 6X

Tall Sizing Available

**Arc Rating:** 16.3 cal/cm<sup>2</sup>

**Ebtas:** 21.9 cal/cm<sup>2</sup>

**HAF:** 84%

**MVTR:** 546 G/M<sup>2</sup>/24H

**Total % body burn:** 19.67%

**3rd Degree Burn:** 6.55%

ANSI 107-2015, Type R, Class 3

ASTM F1891 Arc Flash

ASTM F2733 Flash Fire

ASTM F903 Chemical Resistance



**Features Designed to Keep You Dry!**



All seams are stitched and high-frequency sealed



Over-size jacket hood with adjustable draw string fits comfortably over a hard hat



Jacket collar with self-stowing hood storage



Front storm flap with hook and loop closure



Ventilated jacket back



Reinforced lanyard opening



3" internal anti-wicking dam on bottom of jacket and pants to prevent internal moisture migration



Two oversize lower front pockets with hook and loop closure and pull tabs, plus hand warmer openings.



Hook and loop adjustable jacket cuffs for optimal fit and comfort



ALCPU10LY

**Arc® X PU 48" Raincoat**  
ALCPU10LY

- 48 inch long coat
- Oversized hood
- Anti-wicking dam
- Vented back

**Arc Rating:** 16.3 cal/cm<sup>2</sup>

**Ebtas:** 21.9 cal/cm<sup>2</sup>

**HAF:** 84%

**MVTR:** 546 G/M<sup>2</sup>/24H

**Total % body burn:** 19.67%

**3rd Degree Burn:** 6.55%

ANSI 107-2015, Type R, Class 3

ASTM F1891 Arc Flash

ASTM F2733 Flash Fire

ASTM F903 Chemical Resistance

Sizes: Small- 6X





POLYURETHANE FR ARC RAINWEAR



Non-metallic quick release bib pant strap clips



One reinforced oversize 9" x 9.5" pant pocket with hook and loop closure and pull tabs



Leg zipper for easy donning and doffing over boots and work shoes.



**Arc® X PU Rain Pant  
APPU10LYZ**

- 16 inch zippered boot openings
- 2 snap fly
- Anti-wicking dam

**Arc Rating:** 16.3 cal/cm<sup>2</sup>  
Ebtas: 21.9 cal/cm<sup>2</sup>  
HAF: 84%  
MVTR: 546 G/M<sup>2</sup>/24H  
Total % body burn: 19.67%  
3rd Degree Burn: 6.55%  
ANSI 107-2015, Class E  
ASTM F1891 Arc Flash  
ASTM F2733 Flash Fire  
ASTM F903 Chemical Resistance  
**Sizes:** Small- 6X  
Tall Sizing Available



**Arc® X PU Bib Style Rain Pant  
ABPU10LYZ - Hi-Vis Yellow  
ABPU100RZ - Orange**

- Cargo Pocket
- Non-metallic, quick release clips
- 16 inch zippered boot openings
- 2 snap fly
- Anti-wicking dam

**Arc Rating:** 16.3 cal/cm<sup>2</sup>  
**Ebtas:** 21.9 cal/cm<sup>2</sup>  
**HAF:** 84%  
**MVTR:** 546 G/M<sup>2</sup>/24H  
**Total % body burn:** 19.67%  
**3rd Degree Burn:** 6.55%  
ANSI 107-2015, Class E  
ASTM F1891 Arc Flash  
ASTM F2733 Flash Fire  
ASTM F903 Chemical Resistance  
**Sizes:** Small- 6X  
**Tall Sizing Available**



Lakeland FR/ARC Rain Gear Meets ANSI 107-2015, improving worker visibility during the day, in low-light conditions and at night!





# FR ARC PVC RAINWEAR



## PVC FR/ARC RATED RAINWEAR... PREMIUM FEATURES! UNBEATABLE VALUE!

Lakeland Arc X® Polyurethane FR/ARC Rated Rainwear offers Superior Performance and features:

### More Comfortable

- Cooler: Breathes and releases perspiration
- Softer and more flexible than other rainwear fabrics
- Polyurethane stays flexible in cold weather
- Lighter weight

### More Durable for Longer Wear Cycle

- Softness and pliability make it less prone to get caught on branches and brushes and not tear
- Superior puncture, tear and abrasion resistance
- Reinforced HF sealed seams for maximum strength
- Innovative DRP™ Diamond Reinforced Patch to prevent crotch “blowout”
- Saves money in the long run

PVC FR/AR Rainwear Permeation Testing - ASTM F903-18, Procedure A

Challenge Chemical	CAS Number	Replicate	Average Sample Thickness (mm)	Test Temperature (C°)	Results After 5 min @ 0 psig	Results After 10 min @ 2 psig	Final Results
Acetone 99%	67-64-1	1	26.0	27	Pass	Pass	Pass
		2	25.5		Pass	Pass	
		3	25.0		Pass	Pass	
Sodium Hydroxide 50%	1310-73-2	1	25.5	27	Pass	Pass	Pass
		2	24.5		Pass	Pass	
		3	30.0		Pass	Pass	
Toluene 99%	108-88-3	1	27.0	27	Pass	Pass	Pass
		2	25.0		Pass	Pass	
		3	24.5		Pass	Pass	
Hydrofluoric Acid 48%	7664-39-3	1	26.0	27	Pass	Pass	Pass
		2	23.5		Pass	Pass	
		3	23.0		Pass	Pass	
Sulfuric Acid 93%	7664-93-9	1	24.0	27	Pass	Pass	Pass
		2	25.5		Pass	Pass	
		3	25.5		Pass	Pass	





8.6 cal

**Arc X® PVC Rain Jacket**  
**AJPVC10LY**

- Oversized hood
- D-ring pass through
- Vented back

**Sizes:** Small- 6X  
Tall Sizing Available

**Arc Rating:** 8.6 cal/cm<sup>2</sup>  
**Ebtas:** 36 cal/cm<sup>2</sup>  
**HAF:** 80%  
**MVTR:** 471 G/M<sup>2</sup>/24H  
**Total % body burn:** 15.98%  
**3rd Degree Burn:** 6.15%  
ANSI 107-2015, Type R, Class 3  
ASTM F1891 Arc Flash  
ASTM F2733 Flash Fire  
ASTM F903 Chemical Resistance



**Arc X® PVC - Premium Arc X® Features**  
**with the value of PVC protection**



All seams are stitched and high-frequency sealed



Over-size jacket hood with adjustable draw string fits comfortably over a hard hat



Jacket collar with self stowing hood storage



Ventilated jacket back



Reinforced lanyard opening



3" internal anti-wicking dam on bottom of jacket



Two oversize lower jacket front pockets with hook and loop closure and pull-tab openings



Front storm flap with hook and loop closure



Hook and loop adjustable jacket and pant cuffs for optimal fit and comfort



8.6 cal



Non-metallic quick release bib pant strap clips



One reinforced oversize pant pocket with hook and loop closure and pull tabs



Hook and loop adjustment tab for easy donning and doffing over boots and work shoes

**Arc X® PVC Bib Style Rain Pant**  
**ABPVC10LY**

- Cargo Pocket
- Non-metallic, quick release clips
- 2 snap fly
- Anti-wicking dam

**Sizes:** Small- 6X  
Tall Sizing Available

**Arc Rating:** 8.6 cal/cm<sup>2</sup>  
**Ebtas:** 36 cal/cm<sup>2</sup>  
**HAF:** 80%  
**MVTR:** 471 G/M<sup>2</sup>/24H  
**Total % body burn:** 15.98%  
**3rd Degree Burn:** 6.15%  
ANSI 107-2015, Class E  
ASTM F1891 Arc Flash  
ASTM F2733 Flash Fire  
ASTM F903 Chemical Resistance





# FR MODACRYLIC HI-VIS VESTS

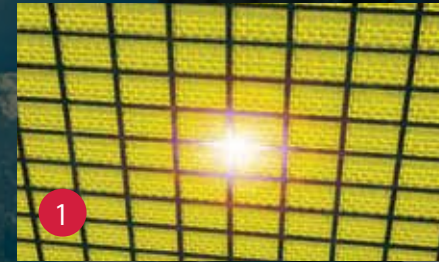
## WHAT IS STATIC DISSIPATIVE FABRIC?

Lakeland's vests are made from patented GlenGuard® Hi-Vis/FR protective fabrics. These patented static dissipative fabrics, 10A (solid) and 10AM (mesh), are each designed with a carbon core fiber. The carbon core fiber works to dissipate a potentially harmful static charge allowing safe work in potentially combustible environments. Industries where there is always notable concern for static build-up include the natural gas transmission, exploration, drilling and transportation industries, gas utility, industrial confined spaces, petrochemical plants and many others. These types of hazardous environments are where a carbon fiber blended fabric is essential for worker safety.

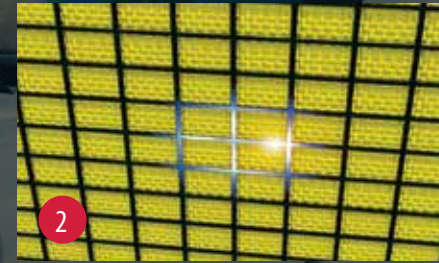
## DOCUMENTATION OF STATIC DISSIPATIVE CLAIMS

Documentation and proof of static dissipative claims in these environments are achieved using the Gas Probe Test, Shirley Method 138-2000 and the Static Decay Test, Method 191A and 5931. Both tests are similar using "worst case conditions" scenarios and require a 50 specimen sample size. In the tests, fabric is charged to 4,000 volts during a 20 second period, and conclusive results specify a decay time to 10% maximum voltage at 0.5 seconds. All 50 specimens must pass the test before the fabric can cite these static dissipating claims. Both the 10A (Solid) and 10AM (Mesh) fabrics have passed this rigorous panel of testing.

## HOW DISSIPATION WORKS



1  
A charged surface comes near or touches the neutral dissipative surface of the fabric.



2  
Charged ions flow to the fabric and begin to dissipate.



3  
The charge dissipates evenly over the full surface via the carbon grid, leaving a safe low-density charge.

## LEARN MORE HERE...

Understand The Science of  
Static Dissipation



### V10A0112ZL

#### Static Dissipative Solid Fabric Vest

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic woven fabric

**ATPV:** 6.3 Cal/cm<sup>2</sup>

Meets ANSI 107 -2015 Class 2

Meets ASTM F1506

**Sizes:** M-6X

**Color:** Hi-Vis Yellow



V-10A0112ZL

### V-10AM0322ZL

#### Static Dissipative Mesh Vest

- Non-conductive zipper front closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic mesh fabric

**ATPV:** 5.2 Cal/cm<sup>2</sup>

Meets ANSI 107 -2015 Class 2

Meets ASTM F1506

**Sizes:** M-6XL

**Color:** Hi-Vis Yellow with orange contrast binding



V-10AM0322ZL

### V-10AM2023ZL

#### Static Dissipative Mesh Vest

- Reinforced lanyard port
- Non-conductive zipper front closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic mesh fabric

**ATPV:** 5.2 Cal/cm<sup>2</sup>

Meets ANSI 107 - 2015 Class 3

Meets ASTM F1506

**Sizes:** M-6XL

**Color:** Hi-Vis Yellow with orange contrast binding



V-10AM2023ZL



CLASS 2 FR MODACRYLIC VESTS



V8A0112V-L/O



V8AM0112VL

**V8A0112V-L/O**  
**Class 2**  
**FR Modacrylic Solid Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic woven fabric  
**ATPV:** 5.5 cal/cm<sup>2</sup>  
**CAT Level:** 1  
Hi-Vis Yellow meets ANSI 107 -2015 Class 2  
Hi-Vis Orange meets ANSI 107 -2010 Class 2  
Both meet ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow or Hi-Vis Orange



V8AM0322VL



V8AM0312ZL

**V8AM0322VL**  
**Class 2**  
**FR Modacrylic Mesh Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sides
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm<sup>2</sup>  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 2  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow with orange contrast binding



**V8AM0312ZL**  
**Class 2**  
**FR Modacrylic Mesh Vest**

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sides
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm<sup>2</sup>  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 2  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow



CLASS 3 FR MODACRYLIC VESTS



V8A0113V-O



V8AM0123ZL

**V8A0113V-O**  
**Class 3**  
**FR Modacrylic Solid Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic woven fabric  
**ATPV:** 5.5 cal/cm<sup>2</sup>  
**CAT Level:** 1  
Hi-Vis Orange meets ANSI 107 -2010 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Orange



**V8AM0123ZL**  
**Class 3**  
**FR Modacrylic Mesh Vest**

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 2 slant pockets
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm<sup>2</sup>  
**CAT Level:** 1  
Meets ANSI 107 - 2015 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow with orange contrast binding



V10AM0123ZL



V8AM0223VL

**V10AM0123ZL**  
**Class 3**  
**Static Dissipative Mesh Vest**

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 5.2 cal/cm<sup>2</sup>  
Meets ANSI 107 - 2015 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow with orange contrast binding



**V8AM0223VLL**  
**Class 3**  
**FR Modacrylic Mesh Vest**

- Reinforced lanyard port
- Hook and loop closure
- Adjustable hook and loop sides
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm<sup>2</sup>  
Meets ANSI 107 - 2015 Class 3  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow with orange contrast binding







V8AM0112VL



V8AM0312ZL



V8AM0322VL



V8AM1412VL



V8AM0113VL



V8AM0123ZL



V8AM0223VL

**V8AM0112VL – Class 2  
FR Modacrylic Mesh Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 2  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow

**V8AM1412VL  
5 Point Breakaway Class 2  
FR Modacrylic Mesh Vest**

- Hook and loop closure
- 2" - heat transfer silver reflective material
- 5 breakaway points
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
Meets ANSI 107 - 2015 Class 2  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow

**V8AM0312ZL – Class 2  
FR Modacrylic Mesh Vest**

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sides
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 2  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow

**V8AM0113VL – Class 3  
FR Modacrylic Mesh Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow

**V8AM0123ZL – Class 3  
FR Modacrylic Mesh Vest**

- Non-conductive zipper closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 2 slant pockets
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow with orange contrast binding

**V8AM0322VL – Class 2  
FR Modacrylic Mesh Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sides
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
**CAT Level:** 1  
Meets ANSI 107 -2015 Class 2  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow with orange contrast binding

**V8AM0223VL – Class 3  
FR Modacrylic Mesh Vest**

- Reinforced lanyard port
- Hook and loop closure
- Adjustable hook and loop sides
- 2" - 3M™ Scotchlite™ Reflective Material
- Adjustable snap sleeves
- 27" length

**Fabric:** Modacrylic mesh fabric  
**ATPV:** 4.6 cal/cm²  
Meets ANSI 107 - 2015 Class 3  
Meets ASTM F1506  
**Sizes:** S/M, L/XL  
**Color:** Hi-Vis Yellow with orange contrast binding





SOLID FR MODACRYLIC VESTS



**V8A0112V-L/O**  
**Class 2**  
**FR Modacrylic Solid Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic woven fabric  
**ATPV:** 5.5 Cal/cm<sup>2</sup>  
**CAT Level:** 1  
Hi-Vis Yellow meets ANSI 107 -2015 Class 2  
Hi-Vis Orange meets ANSI 107 -2010 Class 2  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow or Hi-Vis Orange



V8A0112V-L/O



**V8A0113V-O**  
**Class 3**  
**FR Modacrylic Solid Vest**

- Hook and loop closure
- 2" - 3M™ Scotchlite™ Reflective Material
- 27" length

**Fabric:** Modacrylic woven fabric  
**ATPV:** 5.5 Cal/cm<sup>2</sup>  
**CAT Level:** 1  
Meets ANSI 107 -2010 Class 3  
Meets ASTM F1506  
**Sizes:** M-6XL  
**Color:** Hi-Vis Orange



V8A0113V-O



# NFPA 70E CAT 2 HI-VIS

**FIVE  
POINT  
BREAKAWAY**



V7AFR0412VL

**Class 2 FR/AR Vest**

- 5 point breakaway vest
  - Meets ANSI 107-2015 Class 2
  - Meets ASTM F1506
  - Lightweight, Inherently FR Fabric
  - 2" - 3M™ Scotchlite™ Reflective Material
  - Hook and loop front closure
- ATPV:** 8.4 Cal/cm<sup>2</sup>  
**NFPA 70E - CAT 2**  
**Sizes:** Regular / Oversized  
**Colors:** Hi-Vis Yellow



**6.5 oz. Westex® DH**  
**Dual Certified Hi-Vis Coverall**

**TSP010**

**Maximum Protection!**

- Lightweight, Inherently FR Fabric
- Excellent breathability
- FR protection cannot be washed out or worn away
- Optimized moisture management

**Maximum Features!**

- Pleated bi-swing back gives superior freedom of movement
- Elastic waist provides better comfort
- All exposed metal next to skin (snaps, etc.) are FR fabric covered for maximum protection
- Sewn throughout with FR thread
- 3M™ Scotchlite™ Reflective Material - Comfort Trim
- Two patch breast pockets, left chest pocket has a pen slot
- Heavy duty, two-way quick release brass zipper
- Two hip pockets with a snap closure on the left hip pocket
- Two swing pockets with internal pass-thrus
- Utility pocket on right leg
- Adjustable sleeve cuffs

**Fabric:** 6.5 oz. Westex® DH Inherently FR Fabric  
**Standards:** ANSI 107 Class 3, NFPA 70E, NFPA 2112 - UL Certified  
**ATPV:** 8.9 cal/cm<sup>2</sup>  
**Sizes:** 36 to 66, Talls also available  
**Colors:** Hi-Vis Yellow



TSP010



Covered zipper front closure



Adjustable wrists



16" zipped boot openings





# HIGH PERFORMANCE FR/AR GARMENTS



## UNDERSTANDING ARC FLASH PROTECTION WHEN LAYERING GARMENTS

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.

High Performance FR Knit  
(long sleeve or long sleeve Henley style)  
ATPV: 16.4 cal/cm<sup>2</sup>

High Performance DH Shirt  
ATPV: 8.9 cal/cm<sup>2</sup>

+

=

28 cal/cm<sup>2</sup>  
CAT 3

High Performance FR Knit  
(long sleeve or long sleeve Henley style)  
ATPV: 16.4 cal/cm<sup>2</sup>

High Performance DH Shirt  
ATPV: 8.9 cal/cm<sup>2</sup>

High Performance FR Hoodie  
ATPV: 28.0 cal/cm<sup>2</sup>

+

+

=

58 cal/cm<sup>2</sup>  
CAT 4

High Performance FR Knit  
(long sleeve or long sleeve Henley style)  
ATPV: 16.4 cal/cm<sup>2</sup>

High Performance DH Shirt  
ATPV: 8.9 cal/cm<sup>2</sup>

High Performance FR Jacket  
ATPV: 28.0 cal/cm<sup>2</sup>

+

+

=

60 cal/cm<sup>2</sup>  
CAT 4



# 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.

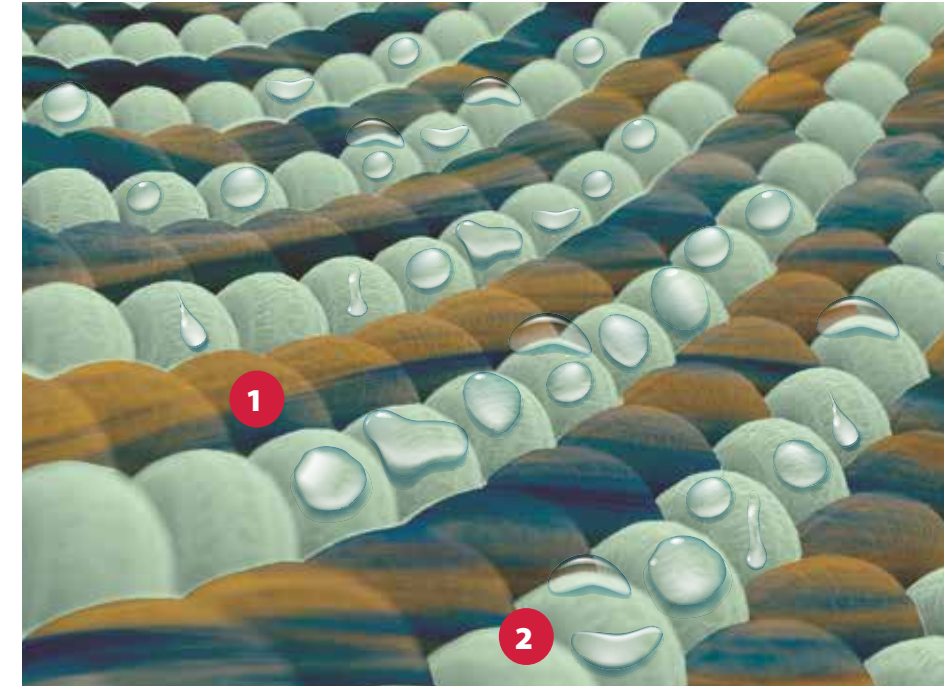
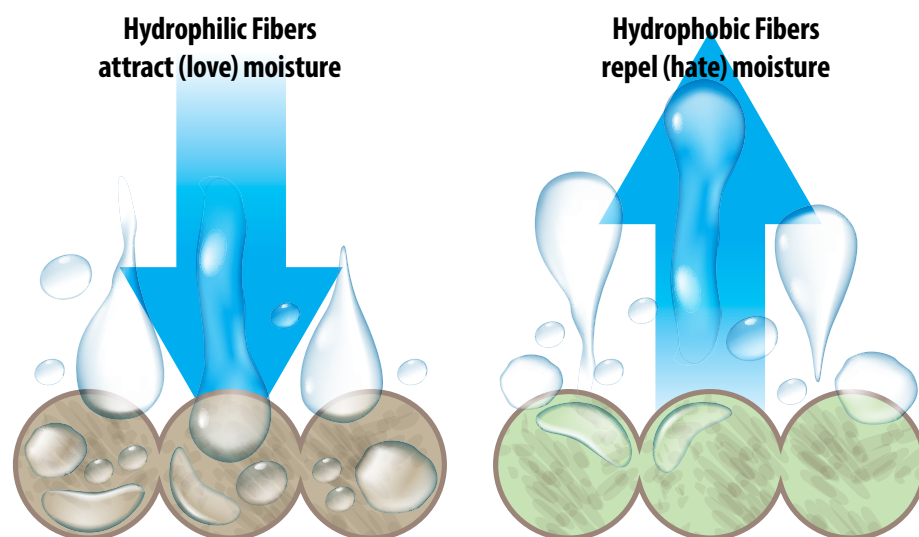


## What are Moisture Wicking Fibers?

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.

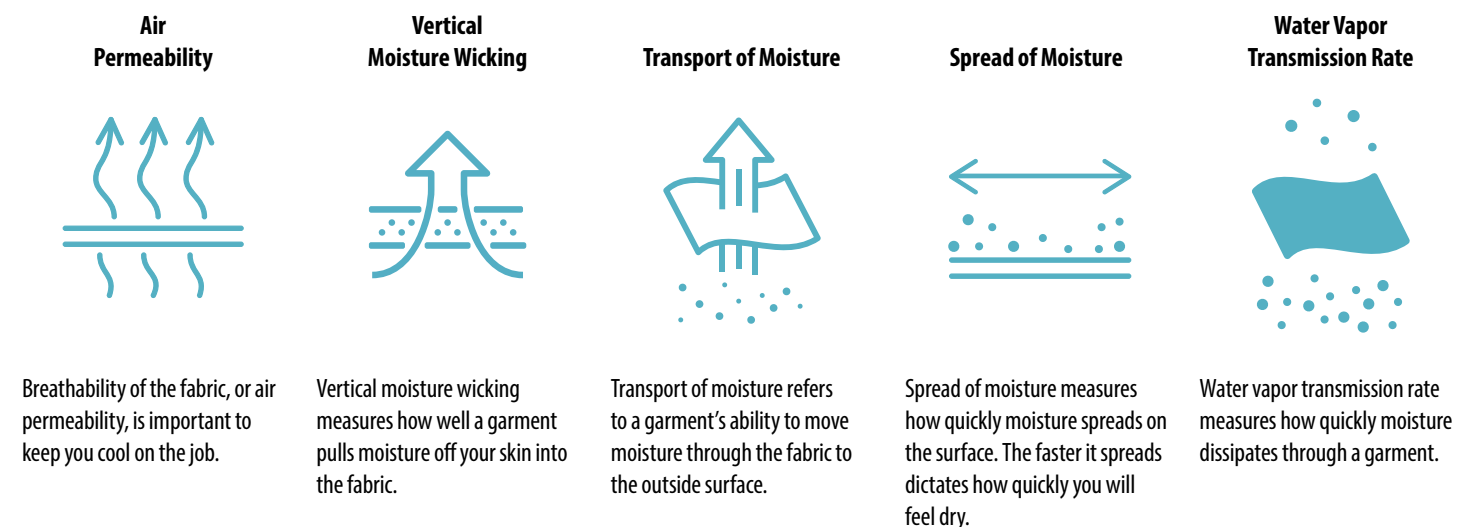


## How Does Moisture Wicking Work?

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.**



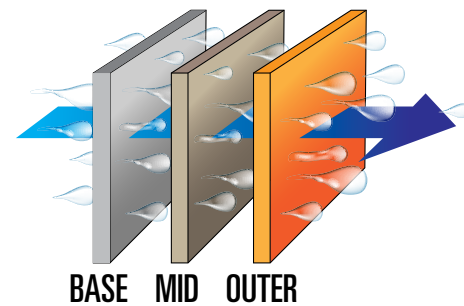


# FR LAYERING FOR WARM, DRY WINTERS

## 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.



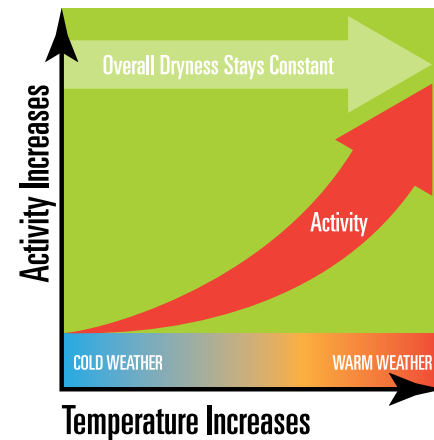
Understanding the correct way to layer apparel to maintain body temperature, dryness and protection from the elements takes more than just a system, it takes a system with the right fabrics and technology.

## 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 water and wind 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.





# HIGH PERFORMANCE FR BASE



- Short Sleeve Crew**
- Unparalleled Cat 2 protection at 16.4 cal/cm<sup>2</sup>
  - NFPA 70E and NFPA 2112 - UL Certified
  - Dropped shoulder-no seam on top for superior comfort
  - 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™ Reflective Material - Comfort 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/cm<sup>2</sup>    **CAT:** 2  
**Sizes:** Small – 6XL, Talls Available MD-4XL  
**Color:** Hi-Vis Yellow



Top – LSCAT29RT, Bottom – HSAT29RT

- Long Sleeve Crew and Henley**
- Unparalleled Cat 2 protection at 16.4 cal/cm<sup>2</sup>
  - NFPA 70E, NFPA 2112 - UL Certified
  - Dropped shoulder-no seam on top for superior comfort
  - Moves moisture faster from front to back and spreads quicker for superior drying
  - Excellent breathability
  - Soft and comfortable
  - 3M™ Scotchlite™ Reflective Material - Comfort Trim for enhanced comfort and visibility

**Style Numbers:**  
**LSCAT29RT** – Men's Long Sleeve Crew with Pocket and reflective trim  
**HSAT29RT** – Men's 3-Button, Long Sleeve Henley with Pocket and reflective trim

**Specifications:**  
**Standard:** NFPA 70E, NFPA 2112 - UL Certified  
**ATPV:** 16.4 cal/cm<sup>2</sup>    **CAT:** 2  
**Sizes:** Small – 6XL, Talls Available MD-4XL  
**Color:** Hi-Vis Yellow



# MID

## High Performance FR Knit Button-up Shirts!



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
  - Features 3M™ Scotchlite™ Reflective Material - Comfort Trim
  - Hi-Vis Style meets ANSI 107 Class 3

**Style Number:** ISHAT29RT  
**Specifications:**  
**Fabric:** 6.9 oz. Inherently FR Knit Fabric  
**Standard:** NFPA 70E, NFPA 2112 - UL Certified  
**ATPV:** 16.4 cal/cm<sup>2</sup>    **CAT:** 2  
**Sizes:**  
**Hi-Vis:** XS-5XL, Talls Available MD - 4XL  
**Color:** Hi-Vis Yellow



# HIGH PERFORMANCE FR HI-VIS WORKWEAR

Lightweight | Inherent | Moisture Wicking



## 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
- Features 3M™ Scotchlite™ Reflective Material - Comfort Trim
- Hi-Vis Style meets ANSI 107 Class 3
- FR protection cannot be washed out or worn away
- Soft and Comfortable

**Style Numbers:**  
**ISH65DH29RT** – 6.5 oz. Westex® DH, Inherently FR Fabric  
**Specifications:**  
**Fabric:** 6.5 oz. Westex® DH, Inherently FR Fabric  
**Standard:** NFPA 70E, NFPA 2112, UL Certified  
**ATPV:** 8.9 cal/cm<sup>2</sup>    **CAT:** 2  
**Sizes:** Small – 6XL, Talls Available MD-4XL





# HIGH PERFORMANCE FR OUTERWEAR

Dual Hazard | Lightweight | Inherent | Moisture Wicking

## HIGH PERFORMANCE FR OUTER LAYER



UJT12ANT29RT

### JACKET FEATURES

Cool Weather Comfort and Protection!

Front storage pocket

Hand-warmer pockets

Abrasion resistant smooth finish

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
- 3M™ Scotchlite™ Reflective Material - Comfort Trim
- Hi-Vis Style meets ANSI 107 Class 3
- Front hand warmer pockets
- Wind and Water Resistant

### Style Numbers:

IJT12ANT29RT – 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 - 4XL

**Color:** Hi-Vis Yellow



IHPANT29RT

## Sporty Pull-Over Hoodies That Are Made To Perform!

- Permanent moisture wicking
- Inherently FR Fabric
- Dual certified – NFPA 70E, NFPA 2112 – UL Certified
- 3M™ Scotchlite™ Reflective Material - Comfort Trim
- Hi-Vis Style meets ANSI 107 Class 3
- Front hand warmer pockets
- Sleeves feature rib-knit cuffs
- Wind and Water Resistant

### Style Numbers:

IHP12ANT29RT – Hi-Vis Pullover Hoodie 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 Pullover:

XS - 5XL, Talls Available MD - 4XL

### Sizes Zip Front:

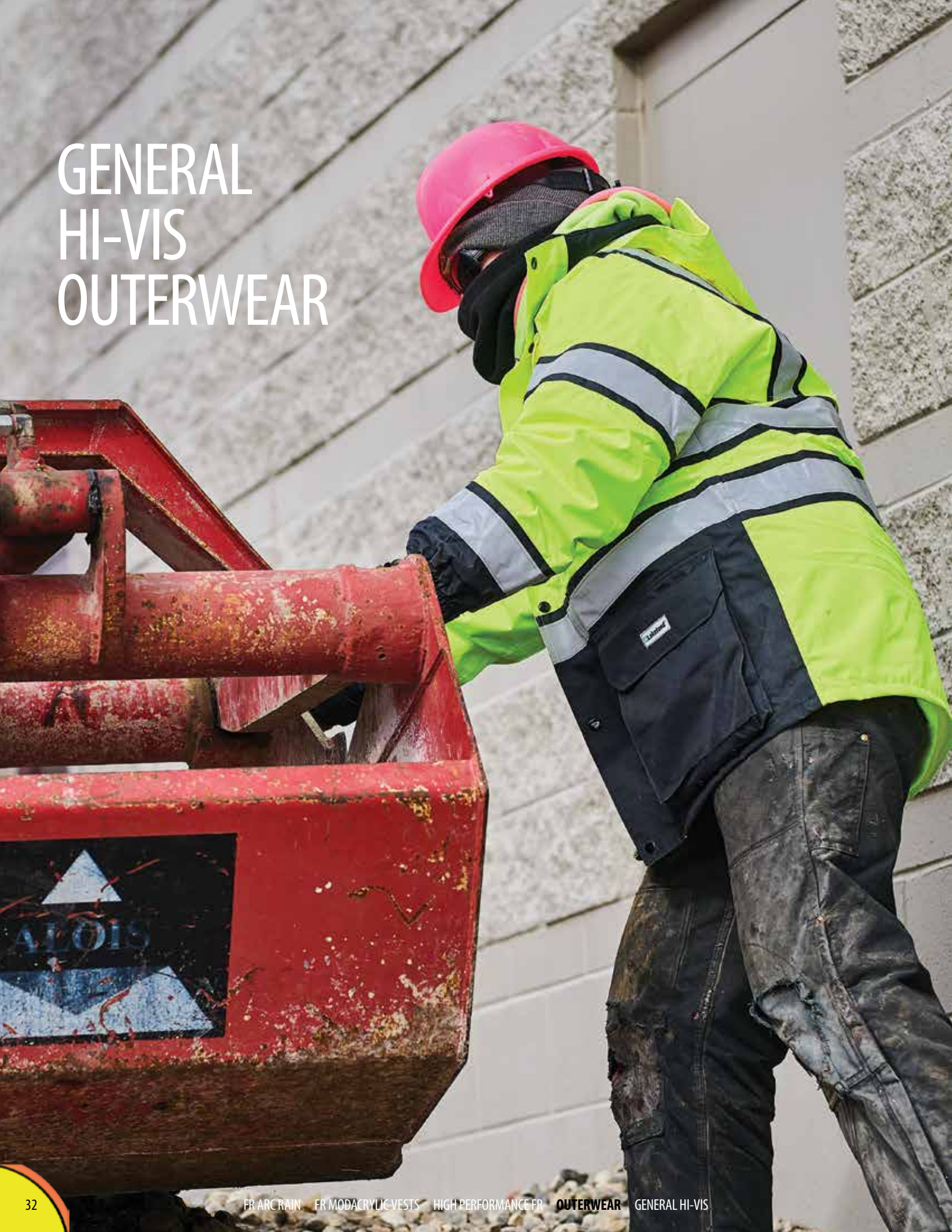
SM - 5XL, Talls Available MD - 5XL

**Color:** Hi-Vis Yellow





# GENERAL HI-VIS OUTERWEAR



## Loaded with Features!



## ANSI Plus 2 Parka... Mother Nature, Give Us Your Best Shot!

Introducing Lakeland's ANSI Plus 2 Parka. Redesigned from the ground up, the Plus 2 Parka is two jackets in one! The Parka Plus 2 outer shell is a versatile jacket you'll reach for day after day. There are plenty of pockets to carry all the essentials. The inner fleece shell zips out to become another jacket.

- Exceeds ANSI/ISEA 107-2010 Class 3 specifications
- 32" length jacket
- Wind resistant and water repellent nylon outer shell
- Inner fleece liner is a valuable layering piece
- Wear the inner fleece alone as a second jacket, or as a liner to the nylon shell
- Hi-Vis Yellow color
- Silver reflective trim

**Style Number:** CANSIP2L

**Standard:** ANSI 107, Class 3

**Sizes:** S-6XL

**Tall Sizes:** LT-6XT

**Color:** Hi-Vis Yellow - Black



Style: G-136

### Don't Forget Your Gloves! Thinsulate® Lined

- Hi-Visibility Reflective Glove
- 100% Nylon Shell
- 3M Thinsulate® Liner
- Silver Reflective Trim

**Sizes:** S - 2XL

**Color:** Hi-Vis Yellow



TOUGH GEAR MADE TO BEAT THE WEATHER!



CHVRS01L

**PVC Coated Polyester Rain Suit**

- Waterproof and wind proof
- Two lower slash pockets
- Two pass through slash pockets on pants
- Removable hood with cord lock
- Adjustable pant legs
- Back ventilation

**Style Number:**

CHVRS01L (Coat)

PHVRS01L (Pant)

**Standard:** ANSI 107-2010 Class 3

**Sizes:** S-5XL

**Color:** Hi-Vis Yellow / Black



PHVRS01L



C3SAFRG2L

**Second Generation High Contrast Bomber Jacket**

- Hi-Vis Yellow Shell with contrasting 3" trim
- All seams are sealed for foul weather use
- Fabric is FR treated and breathable
- Removable Zip-Out Liner
- Plenty of pockets!
- 2 mic tabs
- Two way heavy duty zipper
- Non-conductive closures

**Style Number:** C3SAFRG2L

**Standard:** ANSI 107, Class 3, ISO 14116-1:2008 Protection against heat and flame-Limited flame spread materials, material assemblies and clothing

**Color:** Hi-Vis Yellow

**Sizes:** S - 6XL, MT - 6XT (Tall)



Removable Zip-Out Liner



# GENERAL HI-VIS VESTS AND ACCESSORIES





PUBLIC SAFETY VESTS



FOUR  
POINT  
BREAKAWAY

VAF0SC2GBL



FIVE  
POINT  
BREAKAWAY

VAF0SC2GBV-L/O



FOUR  
POINT  
BREAKAWAY

VAF0SP2GBL



FIVE  
POINT  
BREAKAWAY

VAF0SP2GBVL



FOUR  
POINT  
BREAKAWAY

VAM0SC2GBL



FIVE  
POINT  
BREAKAWAY

VAM0SC2GBV-L/O



FOUR  
POINT  
BREAKAWAY

VAM0SP2GBL



FIVE  
POINT  
BREAKAWAY

VAM0SP2GBVL

**VAF0SC2GBL**  
**Public Safety**  
**4 Point Breakaway**  
**Solid Vest**

- 4 point breakaway style
- Open sides
- Zipper closure

**Fabric:** FR Treated Polyester  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

**VAM0SC2GBL**  
**Public Safety**  
**4 Point Breakaway**  
**Mesh Vest**

- 4 point breakaway style
- Open sides
- Zipper closure

**Fabric:** FR Treated Polyester Mesh  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

**VAF0SC2GBV**  
**Public Safety**  
**5 Point Breakaway**  
**Solid Vest**

- 5 point breakaway style
- Open sides
- Hook and loop closure

**Fabric:** FR Treated Polyester  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow or Orange

**VAM0SC2GBV**  
**Public Safety**  
**5 Point Breakaway**  
**Mesh Vest**

- 5 point breakaway style
- Open sides
- Hook and loop closure

**Fabric:** FR Treated Polyester Mesh  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow or Orange

**VAF0SP2GBL**  
**Public Safety**  
**4 Point Breakaway**  
**Solid Vest**

- Radio Pocket w/ Trim
- 2 Mic Tabs
- Inside Pocket
- 4 point breakaway style
- Open sides
- Zipper closure

**Fabric:** FR Treated Polyester  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

**VAM0SP2GBL**  
**Public Safety**  
**4 Point Breakaway**  
**Mesh Vest**

- Radio Pocket w/ Trim
- 2 Mic Tabs
- Inside Pocket
- 4 point breakaway style
- Open sides
- Zipper closure

**Fabric:** FR Treated Polyester Mesh  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

**VAF0SP2GBVL**  
**Public Safety**  
**5 Point Breakaway**  
**Solid Vest**

- Radio Pocket w/ Trim
- 2 Mic Tabs
- Inside Pocket
- 5 point breakaway style
- Open sides
- Hook and loop closure

**Fabric:** FR Treated Polyester  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

**VAM0SP2GBVL**  
**Public Safety**  
**5 Point Breakaway**  
**Mesh Vest**

- Radio Pocket w/ Trim
- 2 Mic Tabs
- Inside Pocket
- 5 point breakaway style
- Open sides
- Hook and loop closure

**Fabric:** FR Treated Polyester Mesh  
Meets ANSI 207-2006  
**Sizes:** Regular/Oversized  
**Color:** Hi-Vis Yellow

ANSI  
207

ANSI  
207

ANSI  
207

ANSI  
207

ANSI  
207

ANSI  
207

ANSI  
207

ANSI  
207



GENERAL HI-VIS

**VAMC2PVL**  
**Class 2**  
**Polyester Mesh Vest**

- 2" silver HT trim
- Inside pocket
- Pencil pocket
- Hook and loop closure

**Fabric:** Polyester mesh  
Meets ANSI 107 -2015 Class 2  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow



Pencil Pocket



Inside Pocket



VAMC2PVL



VAMC3SPL

**VAMC3SPL**  
**Class 3**  
**Polyester Mesh Vest**

- 2" silver HT trim
- Inside pocket
- Pencil pocket
- Zipper closure

**Fabric:** Polyester mesh  
Meets ANSI 107 - 2015 Class 3  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow



**VAMC2GDKL**  
**Class 2**  
**Polyester Mesh Vest**

- Red/Orange Gro-grain with 2" silver HT trim
- Inside pocket
- Pencil pocket
- Zipper closure

**Fabric:** Polyester mesh  
Meets ANSI 107 -2015 Class 2  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow



VAMC2GDKL



VAMC3GDKL

**VAMC3GDKL**  
**Class 3**  
**Polyester Mesh Vest**

- Red/Orange Gro-grain with 2" silver HT trim
- Inside pocket
- Pencil pocket
- Zipper closure

**Fabric:** Polyester mesh  
Meets ANSI 107 -2015 Class 3  
**Sizes:** M-6XL  
**Color:** Hi-Vis Yellow





SPECIALTY VESTS

Incident Command System Vests

- Zipper front closure
- Adjustable hook and loop sides
- 2 inside pockets
- Cell phone pocket on right chest
- Silver reflective trim on 3" Gro Grain
- 4" X 18" reflective panel on back
- ICS organizational imprints available at additional cost

Sizes: Oversize to fit over fire gear (3XL-5XL)

Colors: Hi-Vis Yellow and Red



VICOSL

VICOSD

VICOS Incident Command System Six Vest Set Complete With Gear Bag

- Zipper front closure
- Adjustable hook and loop sides
- 2 inside pockets
- Cell phone pocket on right chest
- Silver reflective trim on 3" Gro Grain
- 4" X 18" reflective panel on back
- ICS organizational imprints available at additional cost

Fabric:

Sizes: Oversize to fit over fire gear (3XL-5XL)

Colors: Hi-Vis Yellow, Red, Orange, Royal, White or Yellow



BGICBD

VA2CONT Class 2 Mesh Vest

- 2 chest pockets
- 2 inside pockets
- Zipper front closure
- Silver reflective trim
- Mesh fire resistant fabric
- Optional Surveyor's Pocket available

Fabric: FR Treated Polyester Mesh Meets ANSI/ISEA 107-2010 Class 2

Sizes: M-5XL

Color: Hi-Vis Yellow



2 chest pockets

Zipper front closure

Silver reflective trim

Mesh FR fabric

2 inside pockets

ACCESSORIES



AARMKTREL



ALEGRESPL

AARMKTREL ALEGRESPL Reflective Elastic Armband and Leg band

- Hook and loop Closure
- "Triple trim" look
- Silver reflective trim
- Leg band features snap closure

Armband Size: 1.5" x 13"

Leg band Size: 1.5" x 15"

Color: Hi-Vis Yellow



ALEGVLP Hi-vis Mesh Leggings

- ANSI/ISEA 107-2010 Class E
- Elastic top & bottom
- 3 point adjustable hook and loop closure
- Silver Reflective trim

Color: Hi-Vis Yellow

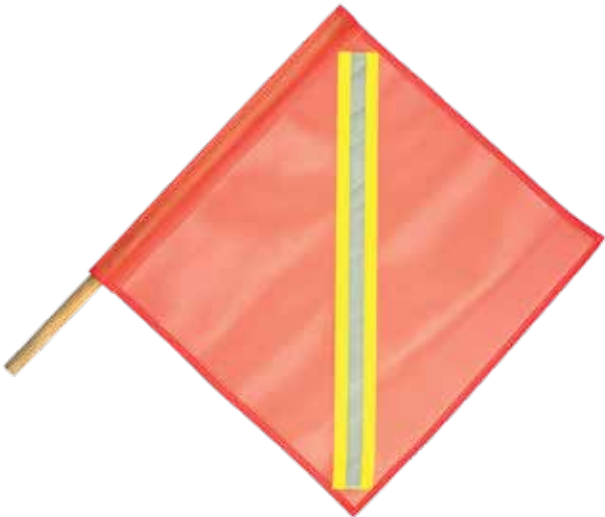


G-136 Thinsulate Lined Gloves

- Hi-Visibility Reflective Glove
- 100% Nylon Shell
- 3M Thinsulate Liner
- Silver Reflective Trim

Sizes: S – 2XL

Color: Hi-Vis Yellow



FLAG 18 and FLAG 24 Traffic Flag

- Heavy duty coated Nylon Mesh
- 2" Hi-Vis Yellow Reflective Triple Trim on both sides

Sizes: 18" x 18" or 24" x 24"

Color: Blaze Orange





**FR/AR Clothing**



**Heat Protective Apparel**



**Fire Fighter Turnout Gear**



**Critical Environment**

**Your First Line of Defense  
in Protective Apparel**

 **Lakeland**<sup>®</sup>  
Protect Your People<sup>®</sup>

**In the USA**

Toll Free: 800-645-9291

Voice: 256-350-3873

Fax: 256-350-0773

Email: [info@lakeland.com](mailto:info@lakeland.com)

©2020 Lakeland Industries Inc. All rights reserved.  
3M<sup>™</sup> and Scotchlite<sup>™</sup> are trademarks of 3M, used under license in Canada  
GlenGuard is a registered trademark of Glen Raven, Inc.



**Disposable**



**Hand and Arm Protection**



**Wildland Gear**



**Chemical**