Protective Clothing for Utilities


800-645-9291 • www.lakeland.com • info@lakeland.com

Lakeland
Protect Your People™
A. Style V-8AM0112VL
Basic Class 2 Vest
Modacrylic mesh with modacrylic binding
- Meets ANSI 107-2010, Class 2 specifications
- 2” Silver heat transferred trim
- Hook & loop front closure
- 27” length.
Sizes: M-6XL
Color: Lime Yellow

B. Style V-8AM0312ZL
Non-conductive Zipper Closure
Modacrylic mesh with modacrylic binding
- Non-conductive zipper front closure
- Open-sides with adjustable snap closures
- 2” Silver heat transferred trim
- Meets ANSI 107-2010, Class 2 specifications
- 27” length.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Option: 24” length V-8AM1512ZL
Color: Lime Yellow

C. Style V-8AM1412VL
5 Point Breakaway
Modacrylic mesh with modacrylic binding
- 5 point breakaways at shoulders, adjustable sides, and front closure
- Hook and Loop front closure
- 2” Silver heat transferred trim
- Meets ANSI 107-2010, Class 2 specifications
- 24” length.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Color: Lime Yellow

Breathable Mesh Arc Rated Vests Test Data
Air Flow: 490 CFM
ATPV = 5.1 cal/cm², HRC Level 1
Testing: ASTM F1506, NFPA 70E
All modacrylic vests are sewn with Nomex® thread.
**Class 3**

**D. Style V-8AM0142VL**
High Contrast Trim and Binding
Modacrylic mesh with orange modacrylic binding
- Orange 4” modacrylic contrast behind silver trim
- 2” Silver heat transferred trim
- Meets ANSI 107-2010, Class 2 specifications
- Hook & loop front closure
- 27” length.
- Optional lanyard port
Sizes: M-6XL,
Color: Lime Yellow with contrast

**E. Style V-8AM0113VL**
Basic Class 3 Vest
Modacrylic mesh with modacrylic binding
- ANSI 107-2010, Class 3
- 2” Silver heat transferred trim
- Hook & loop front closure
- 27” length.
Sizes: M-6XL
Color: Lime Yellow

**F. Style V-8AM0322VL**
Adjustable Snap Sides Plus High Contrast Binding!
Modacrylic mesh with orange modacrylic binding
- Open-sides with adjustable snap closures
- 2” Silver heat transferred trim
- Meets ANSI 107-2010, Class 2 specifications
- Hook and loop closure
- 27” length.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Color: Lime Yellow with contrast

**G. Style V-8AM0223VL**
Class 3 Vest with Lanyard Port
Modacrylic mesh with orange modacrylic binding
- Reinforced lanyard port.
- Meets ANSI 107-2010, Class 3 specifications
- Open-sides with adjustable hook & loop
- 2” Silver heat transferred trim
- Hook & loop front closure
- 27” length.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Colors: Lime Yellow with contrast

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Our Lanyard Ports Won’t Rip!
Lakeland Reinforces our lanyard ports for extra tough durability.

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PROTECTIVE CLOTHING FOR UTILITIES
800-645-9291 • www.lakeland.com • info@lakeland.com
Woven Arc Rated Vests • Anti-static 10mm Carbon Grid

A. Style V-10A0312ZL
Non-conductive Zipper Closure
Modacrylic blend with modacrylic binding
• Open-sides with adjustable snap closures
• Anti-static 10mm carbon grid
• Non-conductive zipper front closure.
• 2” Silver heat transferred trim
• Meets ANSI 107-2010, Class 2 specifications
• 27” length
Sizes: S/M, L/XL, 2XL/3XL, 4XL/5XL
Colors: Lime/Yellow

B. Style V-10A0112ZL
Anti-static 10mm Carbon Grid
Modacrylic blend with modacrylic binding
• Anti-static 10mm carbon grid
• Non-conductive zipper front closure.
• 2” Silver heat transferred trim
• Meets ANSI 107-2010, Class 2 specifications
• 27” length
Sizes: M-6XL
Color: Lime/Yellow

C. Style V-10A1723ZL
Adjustable Snaps on Sides and Sleeves
Modacrylic blend with orange modacrylic binding
• Static Dissipative 10mm carbon grid
• Adjustable open-sides with snaps
• Adjustable snap sleeves
• 2” Silver heat transferred trim
• Meets ANSI 107-2010, Class 3 specifications
• Non-conductive zipper front closure
• 27” length
Sizes: S/M, L/XL, 2X/3X, 4X/5X
Color: Lime/Yellow with contrast

Woven Arc Rated Vests Test Data
ATPV = 6.3 cal/cm², HRC level 1
Testing: ASTM F1506, NFPA 70E, Gas Probe test
• Shirley method 138-2000 — Pass
• Static Decay Test, methods 191A and 5931

Performance Textiles, Inc.
Woven Arc Rated Vests • Mesh Carbon Grid Static Dissipative

A. Style V-10AM2023ZL
Class 3 Vest with Lanyard Port
Modacrylic mesh with modacrylic orange binding
• Meets ANSI 107-2010, Class 3 specifications
• 2” Silver heat transferred trim
• Non-conductive zipper front closure
• Reinforced lanyard port
• 27” length.
Sizes: M-6XL
Color: Lime Yellow with contrast binding

B. Style V-10AM0322ZL
Non-conductive Zipper Closure
Modacrylic mesh with modacrylic orange binding
• Non-conductive zipper front closure
• Open-sides with adjustable snap closures
• 2” Silver heat transferred trim
• Meets ANSI 107-2010, Class 2 specifications
• 27” length.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Option: 24” length V-10AM1512ZL
Color: Lime Yellow with contrast binding

C. Style V-10AM0122ZL
Basic Class 2 Vest
Modacrylic mesh with modacrylic orange binding
• Non-conductive zipper front closure
• 2” Silver heat transferred trim
• Meets ANSI 107-2010, Class 2 specifications
• 27” length.
Sizes: M-6XL
Color: Lime Yellow with contrast binding

Breathable Mesh Arc Rated Vests Test Data

Air Flow: 490 CFM
ATPV = 5.1 cal/cm2, HRC Level 1
Testing: ASTM F1506, NFPA 70E
All modacrylic vests are sewn with Nomex® thread.
Durable Woven Vests

A. V-8A0112VL - Lime Yellow
V-8A0112VO - Orange
Class 2 Hook and Loop Closure
Modacrylic woven with modacrylic binding
- Hook and loop front closure
- Meets ANSI 107-2010, Class 2 specifications
- 2" Silver heat transferred trim
- 27" length.
Sizes: M – 6X
Color: Lime Yellow – V-8A0112VL
Orange – V-8A0112VO

B. V-8A0113VL
Class 3 Vest with Sleeves
Hook and Loop Closure
Modacrylic woven with modacrylic binding
- 2" Silver heat transferred trim
- ANSI 107-2010, Class 3
- Hook & loop front closure
- 27” length.
Sizes: M-6XL
Color: Lime Yellow

C. V-8A0222VL
Adjustable Hook and Loop Sides!
Modacrylic woven with orange modacrylic binding
- Open-sides with adjustable hook and loop
- Hook and loop front closure
- Meets ANSI 107-2010, Class 2 specifications
- 2" Silver heat transferred trim
- Length 27”.
Sizes: S/M, L/XL, 2/3XL, 4/5XL
Color: Lime/Yellow with contrast

Need A Radio Pocket?

Pocket Options

<table>
<thead>
<tr>
<th>Pockets</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>#45</td>
<td>4&quot; x 5&quot; radio pocket with strap</td>
</tr>
<tr>
<td>#55</td>
<td>5&quot; x 5&quot;</td>
</tr>
<tr>
<td>#67</td>
<td>6&quot; x 7&quot;</td>
</tr>
<tr>
<td>#21</td>
<td>6&quot; x 5&quot; inside/tablet pocket with 5&quot; x 5&quot;, 3 pencil slots referred to as a 2 in 1 pocket.</td>
</tr>
</tbody>
</table>

ATPV = 5.5 cal/cm², HRC Level 1
Testing: ASTM F1506, NFPA 70E

Protect Your People™
Knit Blend Arc Rated Specification

A. Style S-FRJ0653L
Class 3 Shirt with Segmented Trim!
3012 Modacrylic Jersey knit shirt
- Cotton plated inside
- Henley style, 3 button front, long sleeve
- Meets ANSI 107-2010, Class 3 specifications
- 3M Comfort segmented trim
Sizes: M-6XL
Color: Lime/Yellow
Also available with solid silver trim,
Style S-FRJ0613L

B. Style T-FRJ0513L
Crew Neck Class 3 Knit Shirt
3012 Modacrylic Jersey knit
- Long sleeves
- Cotton plated inside
- Crew ribbed collar
- Meets ANSI 107-2010, Class 3 specifications
- 2” Silver heat transferred trim
Sizes: M-6XL
Color: Lime/Yellow

C. Style T-FRJ0713L
Crew Neck Class 3 Tee Shirt
- 3012 Modacrylic Jersey Knit
- Short sleeves
- Cotton plated inside
- Crew ribbed collar
- 2” Silver heat transferred trim
- Meets ANSI 107-2010, Class 3 specifications
Sizes: M-6XL
Color: Lime/Yellow

Knit Blend Arc Rated Test Data
EBT = 10 cal/cm², HRC Level 2
Testing: ASTM F1506, NFPA 70E
FR Woven Coveralls and Vests

A. Style TSP010L Coverall
Coverall with Zippered Boot Openings

- Twill jumpsuit
- TecaSafe® Plus material
- Meets ANSI 107-2010, Class 2 specifications
- Chest, seat and swing pockets
- 2” silver heat transferred trim
- Zipper front closure
- Adjustable wrists
- 16” zippered boot openings.

ATPV = 8.4 cal/cm², HRC Level 2

Testing: ASTM F1506, NFPA 70E, NFPA 2112 Certified
Sizes: Small- 6XL
Color: Lime/Yellow

B. Style V-7AFR0412VL
5 Point Breakaway HRC Level 2 Vest

- Twill Vest with Modacrylic binding
- Fiber blend of PPN FR, Cellulosic and Para-Aramid
- Meets ANSI 107-2010, Class 2 specifications
- Public Safety Style 5 point breakaway vest
- Open-sides with adjustable hook & loop
- Mic tabs
- 2” Silver heat transferred trim
- 27” length.

ATPV = 8.4 cal/cm², HRC Level 2

Testing: ASTM F1506, NFPA 70E
Sizes: Size R fits M-2XL ; size O fits 3XL-5XL
Color: Lime/Yellow

C. Nomex® IIIA Coveralls
HRC 1 Protection

CO20 – 6.0 ounce Nomex® IIIA coveralls. Available in Navy and Orange.
- Two patch breast pockets, left chest pocket has a pen slot
- Heavy duty, two-way quick release brass zipper with FR zipper tape
- Heavy duty snaps covered internally
- Two hip pockets with a snap closure on the left hip pocket
- Nomex Ripstop side pass-through pockets
- Pleated bi-swing back with elasticized waistband
- Utility pocket on right leg
- Adjustable sleeve cuffs
- Sewn throughout with Nomex® thread
- Exact chest sizes for a precise fit

Ratings
4.5 oz. HRC 1, ATPV 4.6
6.0 oz. HRC 1, ATPV 5.7

NFPA 2112 Certified

3M Scotchlite®
Reflective Material
FRA/ARC Rated Rainwear

Lakeland ARC TECH® Premium Quality Polyurethane FR/ARC Rated Rainwear
ANSI Certified
ASTM Arc and Flash Fire Rated for Electric and Gas Applications

Jacket Style No: AJPU10LY
Bib Pant Style No: ABPU10LYZ

PU offers Superior Performance vs. PVC:
- More Comfortable
  • Cooler: Breathes and releases perspiration
  • Softer and more flexible
  • Lighter weight

More Durable for Longer Wear Cycle
- Softness and pliability make it less prone to get caught on branches and brush
- Superior puncture, tear and abrasion resistance
- Reinforced HF welded/sealed seams for maximum strength
- Innovative DRP™ Diamond Reinforced Patch to prevent crotch “blow out”
- Saves money in the long run

Certification:
Jacket: ANSI 107-2010 Class 3
Bib Overall: ANSI 107-2010 Class E
ASTM F1891 • ASTM F2733 • ASTM F903

FR/Arc Rainsuit Test Data
Fabric information: 10.0 oz² Polyurethane over FR cotton knit
Arc Rating: 16.3 Cal/cm²
HRC Level: 2
Ebtas: 21.9 Cal/cm²
HAF: 84%
MVTR: 305G/M²/24H
Total % body burn: 12.30%
3rd degree burn: 6.55%

Leg Zippers for Easy On and Off!

Jacket and Pant garment seams are stitched and HF sealed to prevent liquid penetration
3” internal anti-wicking dam on bottom of jacket and pants to prevent internal moisture migration
Reinforced lanyard opening
Over-size jacket hood with adjustable draw string fits comfortably over a hard hat
Jacket collar with self-stowing hood storage

Ventilated jacket back
Innovative DRP™ Diamond Reinforced Patch to prevent crotch “blow out”
Zipper front closure with hook and loop storm flap prevents liquids from sneaking in
Leg zipper for easy donning and doffing over boots and work shoes.
Non-metallic quick release bib pant strap clips

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FR Clothing

A. Style Flame Resistant (FR) Shirts and Pants with Everyday Work Comfort Built In!

ISH7 – Khaki Industrial Shirt
Features include: 7 oz 88/12. 88% cotton/12% nylon material, button down collar, button front closure, 2 ply yoke with placket front, two chest pockets with button flap closure, left pocket with pen slot, long rounded tail, long sleeve with button cuffs.

ATPV= 7 oz. 88/12, HRC Level = 2

IPT9 – Navy Industrial Pants
Features include: 9 oz 88/12. 88% cotton/12% nylon material, button fly with self locking brass zipper, seven belt loops, two front pockets bar tacked at the bottom of the pocket, two welt hip pockets, Lintrack® permanent creases, left pocket with button closure.

ATPV= 9 oz. 88/12, HRC Level = 2

IDPT12 - Denim Industrial Jean Pants
Features include: 12.4 oz 88/12. 88% cotton/12% nylon material, two front pockets, right pocket with watch pocket, two patch style hip pockets, button fly with self locking brass zipper, Lintrack® permanent creases, seven belt loops.

ATPV= 12.4 oz. 88/12, HRC Level = 2


B. Style UKBD10 Brown Duck Industrial Jacket

10.0 oz. 88/12 FR cotton Brown Duck Liner: - 9 oz. FR cotton batting quilted to 7.7 oz. pre-shrunk FR cotton with a polyurethane wind barrier.
• Corduroy collar
• Non-metallic heat/FR resistant zipper
• Bi-swing pleated back
• Pleated sleeves
• 4 pocket construction

ATPV= 5.1 oz. 88/12, HRC Level = 4

B. Style AR51SC-18L Two Layer Coat

13 oz. Indura® Ultra Soft® Outer Layer
9 oz. Indura® Ultra Soft® Inner Layer

Velcro® front closure
Knit wristlets seal around wrists
Stand up collar
Raglan sleeve design offers superior freedom of movement
32” length for full coverage

ATPV= 5.1 oz. 88/12, HRC Level = 4

AR51BO-18M Two Layer Bib Overalls

13 oz. Indura® Ultra Soft® Outer Layer
9 oz. Indura® Ultra Soft® Inner Layer
Adjustable loop and buckles on bib strap
Tear drop style swing pockets hold plenty of items
Velcro® leg openings with gussets make for easy on and off

AR51BAG Arc Suit Storage Bag
Storage bag large enough to hold the hood, coat, and bib pants.


Non Insulated and Insulated FR Clothing with Reflective Trim

D. Style CO81RT and CO81 Coveralls
9.0 oz. per square yard FR Cotton
NFPA 2112, UL certified
Meets the requirements of NFPA 70E
ATPV – 12.4, HRC 2

Unique Feature! Flared leg cuffs for ease of donning and doffing!
- CO81RT coverall features reflective trim
- CO81 coverall has no reflective trim
- Pleated back with elastic waist for better movement and comfort
- Sewn throughout with FR thread, No exposed metal next to skin
- 7 pockets, left chest has safety flap, Swing pockets have internal pass-thrus to eliminate chance of exposure
- Adjustable sleeve cuffs
- Available colors are Navy, Khaki Gray (CO81 also available in orange)

Also available in our 7.0 oz. 88/12 FR.

E. Style Insulated Coveralls
Style IC08RT13

Outer-shell: 9.0 oz. pre-shrunk FR cotton treated with a water repellent finish.
Liner: 9 oz. FR cotton batting quilted to 7.7 oz. pre-shrunk FR cotton with a polyurethane wind barrier.
ATPV: 55 cal/cm², HRC 4
Outer shell and reflective trim are NFPA 2112 Certified
- NFPA 2112 Reflective Tape, Thread and Zipper, Extra Reflective Tape for 360° Visibility
- Reinforced stitching, storm flap and oversized pockets
- Bi-swing back and elastic waist for comfort and protection
- Heavy duty hook and loop closures
- Leg zippers with full gussets

F. Style Insulated Parka IP08RT13
Insulated Bib Overalls IB08RT13

Outer-shell: 9.0 oz. pre-shrunk FR cotton treated with a water repellent finish.
Liner: 9 oz. FR cotton batting quilted to 7.7 oz. pre-shrunk FR cotton with a polyurethane wind barrier.
ATPV: 55 cal/cm², HRC 4
Outer shell and reflective trim are NFPA 2112 Certified
- NFPA 2112 Reflective Tape, Thread and Zipper, Extra Reflective Tape for 360° Visibility
- Reinforced stitching, storm flap and oversized pockets
- Bi-swing back and elastic waist for comfort and protection
- Heavy duty hook and loop closures
- Non-metallic suspenders
- Leg zippers with full gussets
Pyrolon® FR Disposable Clothing

Pyrolon® Plus 2
Perfect for use over thermally protective and arc protective clothing!
Pyrolon® Plus 2 offers wet or dry strength superior to that provided by other Flame Resistant disposables. Pyrolon® Plus 2 is breathable, making this a cool and comfortable garment to wear. They can be worn comfortably over Nomex® or Indura® FR cotton garments to help keep grease and grime off primary FRC. Can be used to comply with Section 5.1.3 “End-User Requirements” of NFPA 2113
Available in White or Blue.

Pyrolon® XT
Lakeland Pyrolon® XT coveralls are “Tough as Nails”!
70% stronger than Pyrolon® Plus 2, these garments are reinforced with a Cerex® Nylon scrim and a repellent finish. Our Pyrolon® XT wear is air permeable with very high MVTR’s. They can be worn over Nomex® or Indura® FR cotton garments to help keep grease and grime off the more expensive coveralls. Pyrolon® XT is a cost effective garment for applications where FR clothing is required. Pyrolon® XT can be used in work environments where hazardous or non-hazardous contaminants may be present.

Pyrolon® CRFR
Disposable, Chemical Resistant, and Flame Retardant, all rolled into one garment.
Pyrolon® CRFR protective wear...They’re unique. They’re disposable. They’re chemical resistant. And they’re flame retardant, meeting NFPA 2113 requirements. Imagine, all these qualities in one protective garment. Only from Lakeland.
Pyrolon® CRFR garments bar contaminating flammables like paint, oil and grease, PCB’s in transformer oil, hazardous liquids, and dry particulates from penetrating to inner clothing.
Pyrolon CRFR is designed to be self extinguishing; it won’t melt or drip and can be worn over primary thermally protective coveralls where flash fire or arc flash is a concern.
Hand Protection

SpiderGrip® Cut Resistant Work Gloves
Style 96-5205  Spider Grip High Performance Polyethylene (HPPE) polyurethane dipped glove, cut level 3, sizes S-XL
- Advanced protection of high performance fibers
- Seamless design
- Ergonomic fit
- Super cut and Puncture Protection
- Long wearing

ShurRite® Kevlar® Cut Resistant Gloves
Style 21-1634  7 gauge 100% Kevlar knit glove, black PVC dots, (2 sides), cut level 2, sizes S-XL
- Excellent cut resistance
- Heat resistant
- Out last cotton, leather and coated gloves
- Excellent dexterity and flexibility
- Breathable for better comfort

Kevlar® Sleeves
Style 41822 100% Kevlar, 2 ply sleeve, 3" width, cut level 2, 18 in length.
Style 41822TH  100% Kevlar, 2 ply sleeve, 3 in width, thumb hole, cut level 2, 18 in length.
- Excellent cut resistance
- Heat resistant
- Convenient thumb hole design
- Available in 14" to 24 in length

SpiderGrip® Work Gloves
Style 7-1506 Spider Grip Polyester cotton latex dipped work glove, sizes S-XL
- Crinkle dip latex palm provides excellent grip
- Breathable back for comfort
- Puncture resistant
- Ergonomic fit
- Long wearing

SpiderGrip® Cut Resistant Work Gloves
Style 22-1508  Spider Grip Kevlar® knit latex dipped glove, cut level 2, sizes S-XL
- Advanced protection of high performance fibers
- Seamless design
- Ergonomic fit
- Super cut and Puncture Protection
- Long wearing
Warranty and Warnings

Warranty Information
It is the responsibility of the user to select garments and glove products which are appropriate for each intended use and which meet all specified government and industry standards.

IMPROPER USE OF THESE PRODUCTS MAY RESULT IN PERSONAL INJURY OR DEATH. IMPROPER USE INCLUDES, BUT IS NOT LIMITED TO IMPROPER SELECTION, USE WITHOUT ADEQUATE TRAINING, DISREGARDING THESE WARNINGS AND INSTRUCTIONS SUPPLIED WITH THE PRODUCTS AND FAILURE TO INSPECT AND MAINTAIN THE PRODUCTS. THESE PRODUCTS ARE INTENDED TO BE USED ONLY IN CONJUNCTION WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) RULES AND REGULATIONS, AND THE REQUIREMENTS OF OSHA SAFETY AND HEALTH STANDARD 29 CFR 1910 AVAILABLE FROM THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OR OTHER PERTINENT NATIONALLY RECOGNIZED STANDARDS, SUCH AS THOSE PROMULGATED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) (www.nfpa.org), THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) (www.astm.org), THE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH) (www.cdc.gov/niosh/rpg), AND THE U.S.COAST GUARD OR DEPARTMENT OF DEFENSE. It is incumbent upon the wearer and legally required of an employer to read and understand these regulations.

THESE PRODUCTS ARE NOT FLAME RESISTANT AND SHOULD NOT BE USED AROUND HEAT, FLAME, SPARKS, OR IN POTENTIALLY FLAMMABLE OR EXPLOSIVE ENVIRONMENTS EXCEPT WHERE OUR GARMENTS ARE SPECIFICALLY ADVERTISED AS FIRE RESISTANT OR RETARDANT.

NO EXPRESSED OR IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY OR OTHERWISE IS MADE. Purchaser and all garment users shall promptly notify Lakeland Industries, Inc. of any claim, whether based on contract, negligence, strict liability or otherwise.

The sole and exclusive remedy of the purchaser and all end users and the limit of liability of Lakeland Industries, Inc. for any and all losses, injuries or damages shall be the refund of the purchase price or the replacement or repair of any product found to be defective within 90 days after the product is delivered. IN NO EVENT SHALL LAKELAND INDUSTRIES, INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTRACT OF IN TORT, ARISING OUT OF ANY WARRANTIES, REPRESENTATIONS, INSTRUCTIONS, OR DEFECTS FROM ANY CAUSE IN CONNECTION WITH THE GARMENT, OR THE SALE THEREOF.

Purchaser and all users are responsible for inspection and proper care of this product as described in any OF OUR care and use manuals and are responsible for all loss or damages from use or handling which results from conditions beyond the control of the manufacturer.

Product safety information is available upon request. This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. It is the user’s responsibility to determine the level of risk and the proper protective equipment needed for the user’s particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, LAKELAND INDUSTRIES, INC. MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

Warnings and Limitations
Lakeland’s garments are not suitable for use in all situations and environments with all chemical and hazardous materials. All decisions regarding the choice and usage of chemical protective clothing must be done by trained and qualified safety professionals in accordance with all OSHA and EPA Rules and regulations. Failure to follow such regulations absolves Lakeland Industries, Inc. from all liability. It is the user’s responsibility to determine the level of exposure and the proper personal protective equipment needed. It is the employer’s LEGAL RESPONSIBILITY to provide proper protective clothing to employees, and adequate care, use and maintenance of these garments as only your employer knows the conditions under which the wearer works. Lakeland has no such knowledge, so ask your employer.

Lakeland chemical protective ensembles that are certified to NFPA 1991 require an over-cover. The protective over-cover provides additional protection against abrasion, cut, tear or puncture, and direct flame impingement. (All NFPA compliant Interceptor® ensembles utilize specific, multiple glove combinations and specific boots. All components of the specified ensemble must be worn to be compliant with the requirements of this standard.)

Lakeland protective garments will burn except where our garments are specifically advertised as fire resistant. These garments should not be worn around heat, open flames, sparks or any other possible ignition source nor in potentially explosive or flammable environments.

If a Lakeland protective garment is abraded, cut, torn, punctured or otherwise and in any way breached, do not use. The protective garment material has finite resistance to abrasion, cut, tear and puncture. It is the responsibility of the wearer to inspect Lakeland garments prior to use to insure the integrity of the garments and components.

If a Lakeland protective garment is damaged during use, retreat immediately to a safe environment, thoroughly decontaminate the garment, then dispose of it in a safe manner.

Limitations of Use
Lakeland protective garments are not intended for protection against radiological hazards. If the danger of exposure to biological aerosols or chemical warfare chemicals exists, the use of a protective ensemble certified to the optional Chemical and Biological Terrorism requirements of NFPA 1991 (2005 Edition) or garments certified to Class 2 of NFPA 1994 should be considered. Each of these standards provides different levels of performance.

Chemical Permeation Data
Before using a protective ensemble in a chemical situation, consult the chemical permeation data appropriate to the garment material. Note that seams, visors and closures will generally have lower or different permeation times than the garments’ material. This information is to be used as a guide only. The permeation performance of any material depends on a number of factors including chemical concentration, temperature, time and amount of exposure. Due to the large number of variables, it is impossible for all ensemble materials to be tested against all elements, chemicals, all combinations or mixtures thereof, and all temperatures at which the chemical might be encountered.

Chemical permeation tests are performed.
under laboratory conditions -- not actual workplace conditions. They address chemical breakthrough characteristics and do not account for physical performance characteristics that affect a barrier such as abrasion, flex fatigue, puncture, tear, oxidative degradation, or degraded performance due to previous use contaminations.

No single protective material will protect against all chemicals for all situations. The best course of action is to test the primary protective garment materials against the specific chemical hazard, at the temperature and in the concentrations to be encountered. Lakeland Industries, Inc. will provide free swatches of primary garment materials for testing and can provide you with a list of testing facilities.

Never Use Pure Oxygen
The use of 100% oxygen with these garments presents serious fire safety and health hazards. Use only properly functioning breathing quality, compressed air, air line supplied breathing air, or a rebreather system. Note that some rebreather systems utilize small oxygen cylinders, but these do not create enriched oxygen atmosphere.

Wearing garments made of fire retardant cottons, aramids or modacrylics under or over Lakeland light non-woven or ChemMax® garments will not reduce burn injury during a flash fire. Chemmax® garments will burn and possibly melt when exposed to flash fire; this is likely to increase burn injuries even when worn over flame resistant fabrics. This is also true of Lakeland MicroMax® NS, MicroMax® NS Cool Suit, MicroMax®, MicroMax® HBF, MicroMax® 3P, MicroMax® 3P Cool Suit, SafeGard®, SafeGard® Economy SMS, ZoneGard®, Rytex® and other Lakeland light non-woven fabric lines. However, Pyrolon® fabrics and garments are intended to be worn over fire retardant cottons, aramids and modacrylics.

Therefore users of any of these flammable garments should not enter an environment in which the concentration of flammable gas (such as paint fumes, hydrocarbon fumes or pure oxygen) has reached a concentration which is within flammable, ignitable or explosive limits, causing a fire or flash fire. Simply stated, if there is a flash fire, nothing will protect you from severe burns or death. Therefore, it is the user's responsibility to think before working in even a potential flammable gaseous atmosphere.

Lakeland’s light non-woven fabrics, Chemax® and Interceptor® line, are not intended for fire fighting activities, nor for protection from hot liquids, steam, molten metals, welding, electrical arc or thermal radiation. USE COMMON SENSE! DO NOT SMOKE, OR USE ELECTRICAL MACHINERY, AND INSURE USE OF PROPER BONDING AND GROUNDING where flammable gas, liquids or solids exist. Anti-static treatments and coatings are not adequate for all environmental conditions. Static electricity in non-humid or winter environments can cause a deadly flash fire where flammables are present in the workplace. Lakeland’s garments are intended to help reduce the potential for injury, but no protective apparel alone can eliminate all risk of injury. When dealing with fire, heat, or flammable atmospheres, or even the potential of same, look to Lakeland’s FIRE RESISTANT/RETARDANT APPAREL LINES.

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Lakeland delivers the best, most innovative Protective Clothing products and fabric choices available anywhere in the world.

**Broasted range of products and fabrics**
From Disposables to Chemical, Reflective to Hand and Arm, Flame/Arc Flash Resistant and Fire Service/EMS, no one else in the Protective Apparel Industry can offer such comprehensive product and fabric choices- or the expertise to guide you.

**Investing for growth – to serve and protect you better**
We’re doubling our sales and support personnel, R&D and product development efforts, upgrading our systems, and streamlining our operations.

**World-wide presence and growth**
Lakeland International is growing rapidly, with production and sales operations in more than 40 countries. So we can bring you the best in fabrics and innovations the world has to offer and technical expertise for wherever you do business.

**Know the maker - we manufacture our own products**
Lakeland protects people. It is our core business. Unlike our competitors, we don’t use contractors. We make our own apparel, so we have maximum control over quality and delivery.

For most contractors, protective clothing is only a portion of their business, and they lack our expertise and focus on protecting the end user- whereas that is what we are all about. We design the fabric, we make the garment, we inspect it, we ship it. And you know who to call.

Let us help you protect your people, and grow with us!