

Protective Clothing Buyers Guide for Oil and Gas Industries



Pyrolon® Plus 2
Micromax® NS
SafeGard®
Pyrolon® CRFR
ChemMax® 1
ChemMax® 2
ChemMax® 3
ChemMax® 4
FR Work Wear
Fire Fighter Turnout Gear
FR Reflective Safety Wear
Work Gloves



Lakeland

Lakeland Disposable Clothing



Pyrolon® Plus 2

- Perfect for use over thermally protective and arc protective clothing
- Flame Resistant, thermal mannequin tested according to ASTM F1930
- Meets the NFPA 2113 requirements for section 5.1.9
- Breathable
- Excellent for work environments where dirt, grease, grime and other hazardous or Non-hazardous contaminants may be present
- Also available in White and other configurations

Coverall 07412B

Blue Pyrolon® Plus 2
Coverall, zipper closure.
Sizes: S – 5X
Case Pack: 25

Coverall 07414B

Blue Pyrolon® Plus 2
Coverall, zipper closure,
attached hood, boots,
elastic wrists.
Sizes: S – 5X
Case Pack: 25

Coverall 07417B

Blue Pyrolon® Plus 2
Coverall, zipper closure,
elastic wrists and ankles.
Sizes: S – 5X
Case Pack: 25

Coverall 07428B

Blue Pyrolon® Plus 2
Coverall, zipper closure,
attached hood, elastic
wrists and ankles.
Sizes: S – 5X
Case Pack: 25



MicroMax® NS

- Microporous protection from dirt, grease, grime and light chemical splash
- High MVTR for added worker comfort
- Economical
- Blood and viral barrier
- ASTM F903 Penetration data on common chemicals such as Oil, household bleach, Sodium Hydroxide and Sodium Hypochlorite

Coverall CTL412

MicroMax® NS Coverall,
zipper closure.
Sizes: S – 5X
Case Pack: 25

Coverall CTL414

MicroMax® NS Coverall,
zipper closure, attached
hood, boots, elastic
wrists.
Sizes: S – 5X
Case Pack: 25

Coverall CTL428

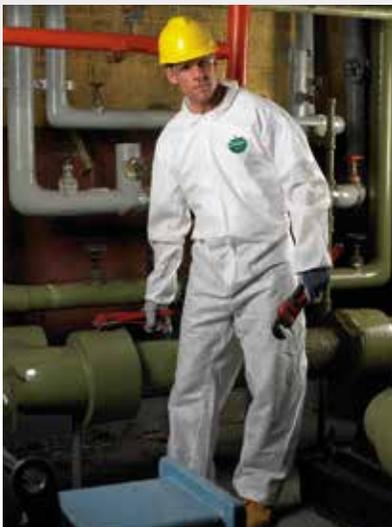
MicroMax® NS Coverall,
zipper closure, attached
hood, elastic wrists and
ankles.
Sizes: S – 5X
Case Pack: 25

Shoe Cover CTL901 / 901 NS

MicroMax® NS Shoe
Cover, elastic ankles.
Also available in gray
non-skid version as Style
901NS.
Sizes: S/M, L/XL, 2X
Case Pack: 200 pair

Sleeve CTL850

MicroMax® NS Sleeve,
elastic ends.
Sizes: 18" length
Case Pack: 100 pair



SafeGard® SMS

- Excellent SMS protection against numerous dry particles and water-based liquid
- Breathable, air and water vapor can pass through for superior worker comfort
- Coveralls feature a deluxe pattern with 2 pockets and an elastic back
- Available in Sky Blue or White

Coverall C8412

SafeGard® Coverall, zipper
closure.
Sizes: S – 5X
Case Pack: 25

Coverall C8414

SafeGard® Coverall, zipper
closure, attached hood,
boots, elastic wrists.
Sizes: S – 5X
Case Pack: 25

Coverall C8417

SafeGard® Coverall, zipper
closure, elastic wrists and
ankles.
Sizes: S – 5X
Case Pack: 25

Coverall C8428

SafeGard® Coverall, zipper
closure, attached hood,
elastic wrists and ankles.
Sizes: S – 5X
Case Pack: 25

Lakeland Chemical Protective Clothing

Pyrolon® CRFR

- Disposable Chemical Resistant and Flame Resistant protection
- Designed to be worn over woven thermally protective coveralls for environments where flash fire is a concern
- Meets the NFPA 2113 requirements for section 5.1.9
- Light chemical splash protection for common chemicals in the Refinery/Petrochem industry
- Self Extinguishing

51130

Coverall, hood, elastic face, storm flap over zipper, wrists, and ankles.
Sizes: S - 5XL
Case Pack: 6

51150

Coverall, hood, elastic face and wrists, storm flap over zipper, attached boots.
Sizes: S - 5XL
Case Pack: 6

Apron

51730
 Apron, long sleeve, elastic wrists, 32" length.
Sizes: 28" w x 32" l
Case Pack: 12

Boot Cover

51740
 Boot Covers, elastic top, 17" high, sealed seams.
Sizes: S/M, L/XL, 2X
Case Pack: 12 pair



Pyrolon® CRFR Penetration Data, 2.5 Mil, ASTM F903

Challenge Chemical	CAS Number	Percentage (%)	Thickness (mils.)	Time to Penetrate
Acetone	67-64-1	99.9	15	>60
Benzene	71-43-2	99	15	>60
Crude Oil	N/A	—	15	>60
Diesel Fuel	N/A	NEAT	15	>60
Ethylene Oxide	75-21-8	99	15	>60
Hydrofluoric Acid	6764-39-3	48	13	>60
Surrogate Gasoline (Toulene 50%) (Isooctane 50%)	108-88-3 540-81-1	—	15	>60
Sulfuric Acid	7664-93-9	95-98	15	45
Sodium Hydroxide	1310-73-2	50	15	>60
Toluene	108-88-3	99.9	15	>60

Note: Chemical Resistance Data is in accordance with ASTM F903 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratories. All tests were performed under laboratory conditions and not actual use conditions.

Pyrolon® CRFR Physical Properties, 2.5 Mil

Physical Property	Units	Test Results
Basis Weight	oz./sq. yd	4.92
Grab Tensile MD	lbs./kg	34
Grab Tensile XD	lbs./kg	27
Mullen Burst	lbs./sq.in.	35
Char Length MD	inches/cm	4.7
Char Length XD	inches/cm	4.5
Afterflame	seconds	<2
Thermal Protective Performance (TPP)	cal./cm ²	6.8
Surface Resistance	EMN1149-1:2006	Pass



ChemMax® 1

Entry level chemical protection that is durable and cost effective.

- Polyethylene coated fabric that offers excellent protection against high and low PH chemicals
- Superior tear resistance and durability as compared to competitive fabrics
- Economical
- Available in Serged, Bound and Sealed seams



ChemMax® 3

- Advanced chemical protection for Industrial, Petrochemical and Chemical markets
- Significantly softer than other competitive products, resulting in a quiet, more comfortable garment
- Light weight, yet strong and durable
- Excellent barrier for industrial chemicals and chemical warfare agents



Lakeland is Your Chemical Protective Clothing Super Store!

Lakeland has a complete line of ChemMax® protective clothing. Choose from ChemMax® 1,2,3 or 4, depending on the level of protection your work environment demands. For the ultimate protection, choose our Interceptor Level A/NFPA 1991 Encapsulated Suits. Call Customer Service today for more information!

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Lakeland FR Clothing



C081RT and C081 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!

- C081RT coverall features reflective trim
- C081 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 (C081 also available in orange)

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

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 UL 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
- Meets the performance requirements of NFPA 70E current edition and ASTM F1506-08. Acceptable for use in occupations covered by OSHA Final Rule 1910.269

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 UL 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
- Meets the performance requirements of NFPA 70E current edition and ASTM F1506-08. Acceptable for use in occupations covered by OSHA Final Rule 1910.269



ISH7 Khaki Industrial Shirt

**7.0 oz. Indura® Ultra Soft
ATPV - 8.7, HRC 2**

- Button down collar
- Button front closure with placket front
- Two ply yoke
- Two chest pockets with button flap closure, left pocket with pen slot,
- Long rounded tail, long sleeve with button cuffs.

IDPT12 Denim Industrial Jean Pants

**12.4 oz. Indura® Ultra Soft®
ATPV - 19.5, HRC 2**

Unique Feature! Lin-track® permanent creases!

- Two front scoop pockets, right has watch pocket
- Two patch style hip pockets
- Button fly with self-locking brass zipper
- Seven belt loops



IJKBD10 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.**

***Meets the performance requirements of
NFPA 70E current edition and ASTM F1506-
08. Acceptable for use in occupations
covered by OSHA Final Rule 1910.269***

- Corduroy collar
- Non-metallic heat/FR resistant zipper
- Bi-swing pleated back
- Pleated sleeves
- 4 pocket construction



OSX® Turnout Gear... Always In Stock and Ready To Ship!

Need a set of quality turnout gear without the wait? Make the call for OSX®. OSX® is always in stock, on the shelf for fast delivery.

OSX® Battalion™ and Attack™ are Lakeland Fire's most popular series of turnout gear. The gear features an advanced 3 body panel design giving the wearer extreme freedom of movement. Rugged construction means maximum durability and a long garment life. A long list of standard features rivals what other manufacturers call custom gear.

Get your gear, and get it fast with OSX®.



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Lakeland FR Reflective Clothing



V-10A1723ZL Modacrylic Solid Vest

ANSI 107-2010, Class 3 Modacrylic solid blend with orange modacrylic binding. Static Dissipative 10mm carbon grid.

ATPV - 6.3 cal/cm², HRC level 1

ASTM F1506, NFPA 70E, Gas Probe test Shirley method 138-2000 - Pass Static Decay test, methods 191A and 5931

- Non-conductive zipper front closure
- Adjustable Snaps on Sides and Sleeves
- Adjustable open-sides with snaps
- Adjustable snap sleeves
- 2" Silver heat transfer trim



V-10AM0322ZL Modacrylic Mesh Vest

ANSI 107-2010, Class 2 Anti-Static carbon grid Modacrylic Mesh ATPV - 5.1, HRC 2

- Dual Sizing
- 12" L/Y non-arcing zipper
- 2" Silver heat transfer trim 1 vertical stripe over each shoulder running full length of vest
- 1 horizontal stripe around mid-section
- Snap adjustable side arms
- FR R/O Modacrylic binding
- 27" length



V-10AM0122ZL Modacrylic Mesh Vest

ANSI 107-2010, Class 2 Anti-Static carbon grid Modacrylic Mesh ATPV - 5.1, HRC 2

- 12" L/Y non-arcing zipper
- 2" Silver heat transfer trim 1 vertical stripe over each shoulder running full length of vest
- 1 horizontal stripe around mid-section
- FR R/O Modacrylic binding
- 27" length



T-FRJ0513 Class 3 Shirt

Lime Yellow Crew Neck Class 3 Knit Shirt
3012 Modacrylic Jersey knit, Cotton plated internally. 2" Silver heat transferred trim

- ANSI 107-2010
- Class 3 ASTM F1506
- NFPA 70E
- ATPV - 10 cal./cm², HRC Level 2



TSP010L Modacrylic Coverall

7.0 oz. Twill TecaSafe Plus, Lime yellow
ANSI107-2010, Class3,

NFPA 2112 certified

ATPV - 8.4 cal/cm², HRC 2

- 2" heat applied silver trim jumpsuit
- Pockets
- Zipper front closure
- Adjustable wrists
- 16" zippered boot openings.

Lakeland Gloves



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



Style 7-1301



Style 7-1506

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

Style 7-1301 Spider Grip Plus, heavyweight acrylic latex dipped glove, sizes S-XL

- Heavy weight acrylic provides added protecting in low temperature applications
- Crinkle dip latex palm provides excellent grip
- Puncture resistant
- Breathable back for comfort
- 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

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 **Lakeland**

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

Broadest 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!



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