

# **Protect Your People**



# **Proven and Reliable Protective Clothing**

MicroMax® NS

MicroMax® NS Cool Suit

MicroMax®

MicroMax® HBF

MicroMax® 3P Cool Suit

ZoneGard®

SafeGard®

**Economy SMS** 

Pyrolon® Plus 2

Pyrolon® CRFR

ChemMax® 1

ChemMax® 2

ChemMax® 3

ChemMax® 4

Interceptor®

www.lakeland.com

# Why Choose Lakeland?

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Lakeland delivers the best, most innovative Protective Clothing products and fabric choices available anywhere in the world... and we're stepping on the gas!

# 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. All under one roof.

# 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. You will see the difference.

# 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 all 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!



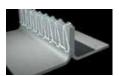
# Lakeland Brand Seams and Protection Levels

## **Serged Seam**

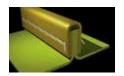
### **Bound Seam**

### Heat Sealed Seam

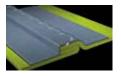
# Heat Sealed Plus



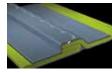
A serged seam joins two pieces of material with a thread that interlocks. This is an economical stitching method for general applications. This stitching method is generally not used for chemical protective clothing. It is more commonly found on disposable clothing where dry particulates are a concern.



A bound seam joins two pieces of material with an overlay of similar material and is chain stitched through all of the layers for a clean finished edge. This provides increased holdout of liquids and dry particulates.



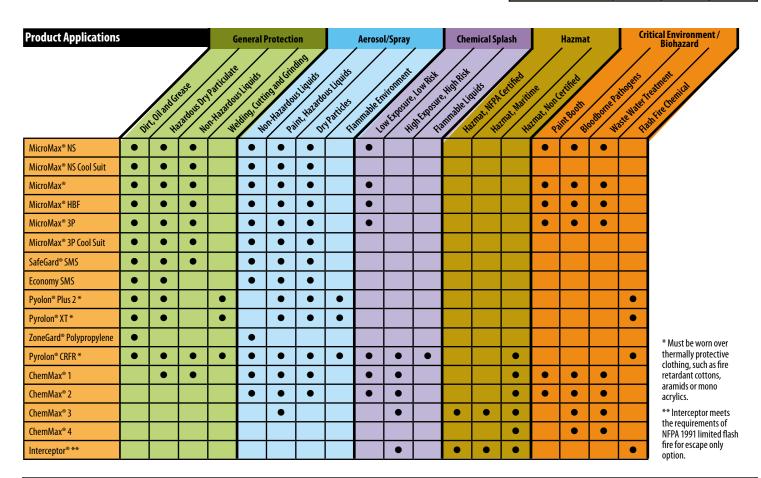
A heat sealed seam is sewn and then sealed with a heat activated tape. This method provides liquid proof seams, and is especially useful for Level A and B chemical protective clothing.



This is the ultimate and strongest seam that Lakeland offers. The seam is sewn and then heat sealed on the outside and inside to offer the highest strength and chemical resistance.

# **Product Seam Availability**

Product	Serged Seam	Bound Seams	Heat Sealed Seams
MicroMax® NS	•		
MicroMax® NS Cool Suit	•		
MicroMax®	•		
MicroMax® HBF	•		
MicroMax® 3P	•		
MicroMax® 3P Cool Suit	•		
SafeGard® SMS	•		
Economy SMS	•		
Pyolon® Plus 2	•		
Pyrolon® XT	•		
ZoneGard® Polypropylene	•		
Pyrolon® CRFR			•
ChemMax® 1	•	•	•
ChemMax® 2		•	•
ChemMax® 3			•
ChemMax® 4			•
Interceptor®			•



# MicroMax® NS

### **Serged Seams**











## Microporous protection from dirt, grease, grime and light chemical splash!

This line of general purpose protective clothing can be used in work environments where hazardous or nonhazardous contaminants may be present. Very economical and lightweight, MicroMAX® NS features high MVTR and is breathable for worker comfort. MicroMAX® NS is strong, wet or dry, perfect for work environments where dirt, grime, splashes and spills are present.

# MicroMax® NS Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	1.55 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	22.0 lbs.
Grab Tensile XD	ASTM D5034	lbs.	14.0 lbs.
Trapezoidal Tear MD	ASTM D1117	lbs.	9.0 lbs.
Trapezoidal Tear CD	ASTM D1117	lbs.	5.8 lbs.
Ball Burst	ASTM D3787	lbs.	19.0 lbs.
Air Permeability	ASTM D737	cfm	<0.562 cfm/ft <sup>2</sup>
Surface Resistivity	EN1149-5:2006	Ω	Pass

# MicroMax® NS ASTM F903 Penetration Data

Chemical Tested	Concentration %	Test Time – Minutes	Test Results
Diazinon	100%	60	Pass
Motor Oil-40 wt.	100%	60	Pass
Bleach-household	100%	60	Pass
Isocyanate Based Paint	100%	60	Pass
Sodium Hydroxide	50%	60	Pass
Sodium Hyperchlorite	10%	60	Pass
Blood	Challenge Fluid Liter — 3.20 x 108 (PFU/mL)	Assay Results PFU/mL <1	Pass



### Labcoat **CTL101**

MicroMax® NS Lab Coat, snap closure, 2 pockets, long sleeve.

Sizes: S - 5XCase Pack: 30



### Labcoat CTL140

MicroMax® NS Lab Coat, snap closure, no pockets, long sleeve. Sizes: S - 5X

Case Pack: 30



### Shirt **CTL201**

snap closure, long sleeves.

Case Pack: 50

MicroMax® NS Shirt, Sizes: S - 5X



### Coverall **CTL412**

MicroMax® NS Coverall, zipper closure. **Sizes**: S − 5X

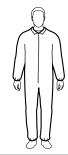
Case Pack: 25



## Coverall **CTL414**

MicroMax® NS Coverall, zipper closure, attached hood, boots, elastic wrists.

Sizes: S - 5XCase Pack: 25



## Coverall **CTL417**

MicroMax® NS Coverall, zipper closure, elastic wrists and ankles. Sizes: S - 5X

Case Pack: 25



### Coverall **CTL428**

MicroMax® NS Coverall, zipper closure, attached hood, elastic wrists and ankles.

Sizes: S - 5XCase Pack: 25



**Smock CTL501** 

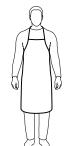
MicroMax® NS Smock, long sleeves, attached ties.

Sizes: S - 5XCase Pack: 50



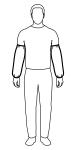
**Pants** CTL301

MicroMax® NS Pants, elastic waist. **Sizes**: S − 5X Case Pack: 50



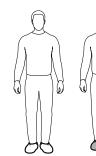
CTL601

MicroMax® NS Apron, sewn ties. **Sizes**: 28" w x 36" l Case Pack: 100



Sleeve **CTL850** 

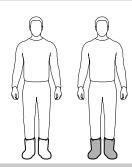
MicroMax® NS Sleeve, elastic ends. Sizes: 18" length Case Pack: 100 pair



### **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



**Boot Cover** CTL903 / 903NS

MicroMax® NS Boot Cover, elastic top, 17" high. Also available in gray non-skid version as Style 903NS.

Sizes: S/M, L/XL, 2X Case Pack: 200 pair

# MicroMax® NS Cool Suit





### **Light Liquid Splash**









# A breathable back panel makes the MicroMax® Cool Suit ideal for warmer work environments!

Like the MicroMAX® NS coverall, the MicroMAX NS Cool Suit™ protects against dirt, grease, spills and contaminants but features increased breathability with an added SMS back panel. A superb pattern design and an elastic back waist offer improved comfort and fit. Front and sides made of microporous film on a polypropylene substrate provide barrier protection and a flap cover over the zipper protects against splashes. The MicroMax NS Cool Suit breathable back panel offers a SMS particulate barrier. Stay cool while protecting yourself with the MicroMAX NS Cool Suit™.

The MicroMax NS Cool Suit breathable back panel offers a SMS particulate barrier

# MicroMAX® Cool Suit Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	1.85 oz/y <sup>2</sup>
Strip Tensile MD	ASTM D5035	lbs.	11.3 lbs.
Strip Tensile XD	ASTM D5035	lbs.	6 lbs.
Tensile Strength MD	ASTM D5034	lbs.	24.4 lbs.
Tensile Strength XD	ASTM D5034	lbs.	16.2 lbs.
Trap/Tear MD	ASTM D1117	lbs.	10.8 lbs.
Trap/Tear XD	ASTM D1117	lbs.	5.4 lbs.
Ball Burst	ASTM 3787	lbs.	25.1 lbs.
Taber Abrasion	ASTM 3884	cycles	1062 cycles
Mocon-Breathability			5031
Air Permeability	ASTM D737	cfm/ft2	<0.562
Surface Resistivity	ASTM D257		>1010
Hydrostatic Resistance	ASTM 4157	cfm	127+
Flammability Pass		lbs.	16 cfr 1610 cii







Coverall **COL428** MicroMax® NS Cool Suit Coverall, zipper closure, attached hood, elastic

wrists and ankles. **Sizes**: S − 5X Case Pack: 25

# MicroMax® CoolSuit ASTM F903 Penetration Data

Chemical Tested	Concentration %	Test Time – Minutes	Test Results
Diazinon	100%	60	Pass
Motor Oil-40 wt.	100%	60	Pass
Bleach-household	100%	60	Pass
Isocyanate Based Paint	100%	60	Pass
Sodium Hydroxide	50%	60	Pass
Sodium Hyperchlorite	10%	60	Pass
Blood	Challenge Fluid Liter — 3.20 x 108 (PFU/mL)	Assay Results PFU/mL <1	Pass

# MicroMax®

#### Serged Seams

# **Dry Particulate**













# Superior microporous protection at a very affordable cost!

MicroMax® from Lakeland Industries brings the most advanced microporous technology to the protective clothing market yet. This line of general purpose protective clothing can be used in work environments where hazardous or non-hazardous contaminants may be present, as well as non-hazardous environments where dirt, grime, splashes and spills are occurring. The MicroMax® fabric is comprised of a microporous film with a polyester ripstop scrim between the film and substrate that gives the material additional strength. Tough, can-do protection at a price that is sure to agree with your budget.

# MicroMax® Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	2.10 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	32.4 lbs.
Grab Tensile XD	ASTM D5034	lbs.	32.6 lbs.
Trapezoidal Tear MD	ASTM D5733	lbs.	5.1 lbs.
Trapezoidal Tear CD	ASTM D5733	lbs.	6.2 lbs.
Surface Resistivity	EN1149-5:2006	Ω	Pass

# MicroMax® ASTM F903 Penetration Data

Chemical Tested	Concentration %	Test Time – Minutes	Test Results
Diazinon	100%	60	Pass
Motor Oil-40 wt.	100%	60	Pass
Bleach-household	100%	60	Pass
Isocyanate Based Paint	100%	60	Pass
Sodium Hydroxide	50%	60	Pass
Sodium Hyperchlorite	10%	60	Pass
Blood	Challenge Fluid Liter — 3.20 x 108 (PFU/mL)	Assay Results PFU/mL <1	Pass



# Labcoat TG101

MicroMax® Lab Coat, snap closure, 2 pockets, long sleeve.

Sizes: S - 5XCase Pack: 30



### Labcoat TG140

MicroMax® Lab Coat, snap closure, no pockets, long sleeve. **Sizes**: S - 5X

Case Pack: 30



### Shirt TG201

MicroMax® Shirt, snap closure, long sleeves. Sizes: S - 5X

Case Pack: 50



## Coverall TG412

MicroMax® Coverall, zipper closure.

Sizes: S - 5XCase Pack: 25



### Coverall TG414

MicroMax® Coverall, zipper closure, attached hood, boots, elastic wrists.

Sizes: S - 5X Case Pack: 25



### Coverall **TG417**

MicroMax® Coverall, zipper closure, elastic wrists and ankles. Sizes: S - 5X

Case Pack: 25



## Coverall TG428

MicroMax® Coverall, zipper closure, attached hood, elastic wrists and ankles.

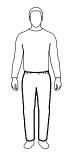
Sizes: S - 5XCase Pack: 25



**Smock** TG501

MicroMax® Smock, long sleeves, attached ties.

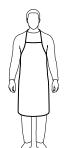
Sizes: S - 5XCase Pack: 50



**Pants TG301** 

MicroMax® Pants, elastic waist.

Sizes: S - 5XCase Pack: 50



**Apron TG601** 

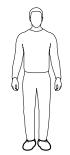
MicroMax® Apron, sewn Sizes: 28" w x 36" l

Case Pack: 100



Sleeve TG850

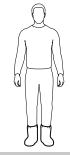
MicroMax® Sleeve, elastic ends. Sizes: 18" length Case Pack: 100 pair



**Shoe Cover** TG901

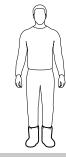
MicroMax® Shoe Cover, Sizes: S/M, L/XL, 2X Case Pack: 200 pair

elastic ankles.



**Boot Cover** TG903

MicroMax® Boot Cover, elastic top, 17" high. Sizes: S/M, L/XL, 2X Case Pack: 200 pair



**Boot Cover** TG905

Vinyl sole Boot Cover, elastic top, 17" high. Sizes: S/M, L/XL, 2X Case Pack: 200 pair

# MicroMax® HBF

**Serged Seams** 



**Light Liquid Splash** 









# Don't choose between barrier protection and wearer comfort... Get protection and comfort with new MicroMax® HBF!

MicroMax® HBF can be used in work environments where hazardous or non-hazardous contaminants may be present. HBF brings cutting-edge film structures to the protective apparel market. Each of its three layers work together to improve barrier performance, comfort, and durability.

The result is a fabric with superior dry particle and light liquid splash barrier and comfort for the wearer.

# MicroMax® HBF Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	2.7 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5304	lbs.	22.12 lbs.
Grab Tensile XD	ASTM D5034	lbs.	36.08 lbs.
Trapezoidal Tear MD	ASTM D5733	lbs.	13.38 lbs.
Trapezoidal Tear CD	ASTM D5733	lbs.	23.20 lbs.
Ball Burst	ASTM D3787	lbs.	32.60 lbs
Surface Resistivity	EN1149-5:2006	Ω	Pass

# MicroMax® HBF ASTM F903 Penetration Data

Chemical Tested	Concentration %	Test Time – Minutes	Test Results
Diazinon	100%	60	Pass
Motor Oil-40 wt.	100%	60	Pass
Bleach-household	100%	60	Pass
Isocyanate Based Paint	100%	60	Pass
Sodium Hydroxide	50%	60	Pass
Sodium Hyperchlorite	10%	60	Pass
Blood	Challenge Fluid Liter — 3.20 x 108 (PFU/mL)	Assay Results PFU/mL <1	Pass

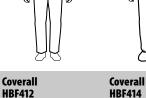


MicroMax® HBF Coverall,

zipper closure.

Case Pack: 25

**Sizes**: S − 5X





**HBF414** MicroMax® HBF Coverall, zipper closure, attached hood, boots, elastic wrists.

**Sizes**: S − 5X

Case Pack: 25



Coverall **HBF417** 

MicroMax® HBF Coverall, zipper closure, elastic wrists and ankles. **Sizes**: S − 5X

Case Pack: 25



Coverall **HBF428** 

MicroMax® HBF Coverall, zipper closure, attached hood, elastic wrists and ankles.

**Sizes**: S − 5X Case Pack: 25

# MicroMax® 3P Cool Suit™

### **Serged Seams**

# **Dry Particulate**











# "Super B" MicroMax® 3P Cool Suit Garment Design!

MicroMax® 3P Cool Suit is the newest addition to the Lakeland brand of MicroMAX® products. The MicroMAX® 3P pattern design features a tailored pattern cut, inset sleeves, elastic back and a double gusseted crotch that allows unparalleled freedom of movement.

Perfect for general duty work environments, Lakeland brand MicroMAX® 3P utilizes 3 barrier layers to provide and excellent level of protection. Dirt, grease, grime, light liquid splashes, spills and contaminants are no problem for MicroMAX® 3P. It's an excellent economical alternative that provides you with high quality protection.

MicroMAX 3P Cool Suit™ protects against dirt, grease and spills but features increased breathability with an added SMS back panel. A superb pattern design and an elastic back waist offer improved comfort and fit. Stay cool and protect yourself with MicroMAX 3P Cool Suit™.

Note: The MicroMax® 3P Cool Suit™ breathable back panel offers an SMS particulate barrier.



# MicroMax® 3P Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	2.0 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5304	lbs.	21 lbs.
Grab Tensile XD	ASTM D5034	lbs.	17 lbs.
Trapezoidal Tear MD	ASTM D5733	lbs.	12.21 lbs.
Trapezoidal Tear CD	ASTM D5733	lbs.	7.7 lbs.
Ball Burst	ASTM D3787	lbs.	64 lbs
Air Permeability	ASTM D737	CFM/sq. ft	<.562 CFM/sq. ft



**3P Cool Suit Coverall** M3PC412E

MicroMax® 3P Cool Suit Coverall, zipper closure. Sizes: S-5XCase Pack: 25



### **3P Cool Suit Coverall** M3PC428E

MicroMax® 3P Cool Suit Coverall, zipper closure, attached hood, elastic wrists and ankles.

Sizes: S – 5X Case Pack: 25

# MicroMax® 3P ASTM F903 Penetration Data

Chemical Tested	Concentration %	Test Time – Minutes	Test Results
Diazinon	100%	60	Pass
Motor Oil-40 wt.	100%	60	Pass
Bleach-household	100%	60	Pass
Isocyanate Based Paint	100%	60	Pass
Sodium Hydroxide	50%	60	Pass
Sodium Hyperchlorite	10%	60	Pass
Blood	Challenge Fluid Liter — 3.20 x 108 (PFU/mL)	Assay Results PFU/mL <1	Pass





# ZoneGard® Polypropylene













# ZoneGard® – Cool clothing for Grimey Sites.

Lakeland's line of breathable ZoneGard® protective wear are appropriate for use in work environments where hazardous or non-hazardous contaminants may be present. Their porous construction accounts for a "breathability" that makes them cool and comfortable while offering protection to those who must work around constant dirt and grime. Economical and disposable, these Lakeland garments and accessories come in a range of styles and sizes.

ZoneGard® Physical Properties				
Physical Property	Test Method	Units	Test Results	
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	1.25 oz/y <sup>2</sup>	



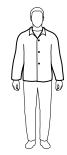


ZoneGard® Lab Coat, snap closure, 2 pockets, long sleeve. Sizes: S - 5XCase Pack: 30



Labcoat C2140

ZoneGard® Lab Coat, snap closure, no pockets, long sleeve. **Sizes**: S – 5X Case Pack: 30



**Shirt C2201** 

ZoneGard® Shirt, snap closure, long sleeves. Sizes: S - 5XCase Pack: 50



Coverall C2412

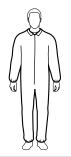
ZoneGard® Coverall, zipper closure. **Sizes**: S – 5X Case Pack: 25



Coverall C2414

ZoneGard® Coverall, zipper closure, attached hood, boots, elastic wrists.

Sizes: S - 5XCase Pack: 25



Coverall C2417

ZoneGard® Coverall, zipper closure, elastic wrists and ankles. **Sizes**: S - 5X

Case Pack: 25



Coverall C2428

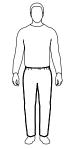
ZoneGard® Coverall, zipper closure, attached hood, elastic wrists and ankles.

Sizes: S - 5XCase Pack: 25



**Smock** 

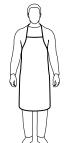
ZoneGard® Smock, long sleeves, attached ties. Sizes: S - 5XCase Pack: 50



## **Pants** C2301

ZoneGard® Pants, elastic waist.

Sizes: S - 5XCase Pack: 50



## Apron C2601

ZoneGard® Apron, sewn

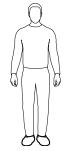
Sizes: 28" w x 36" l Case Pack: 100



### Sleeve C2850

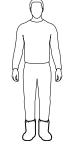
elastic ends.

ZoneGard® Sleeve, Sizes: 18" length Case Pack: 100 pair



# **Shoe Cover**

ZoneGard® Shoe Cover, elastic ankles. Sizes: S/M, L/XL, 2X Case Pack: 200 pair



# **Boot Cover**

ZoneGard® Boot Cover, elastic top, 17" high. Sizes: S/M, L/XL, 2X Case Pack: 200 pair



All ZoneGard® garments are available in white or For Navy, add an "N" at the end of the style

number.

# SafeGard® SMS











## Get great protection and breathability too with SafeGard® SMS!

SafeGard® SMS Protective Garments from Lakeland Industries, Inc. are well named. They keep employees safe from numerous dry particles and water-based liquids. SafeGard® garments can be used in work environments where hazardous or non-hazardous contaminants may be present. These garments feature 3 tough layers to keep contaminants out. The 2 outer layers are made of spunbonded filaments that stand up to tearing and abrasion. The inner layer is of melt-blown polypropylene microfibers that filter out potentially harmful particulates and liquids.

Breathability is the bonus; air and water vapor pass through for superior wearer comfort.

Coveralls feature a deluxe pattern with 2 sewn pockets and elastic in the back. Available in Sky Blue, too!

# SafeGard® Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	1.5 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	25 lbs.
Grab Tensile XD	ASTM D5034	lbs.	20 lbs.
Trap Tear MD	ASTM D5733	lbs.	7.9 lbs.
Trap Tear XD	ASTM D5733	lbs.	6.7 lbs.





SafeGard® Lab Coat, snap closure, 2 pockets, long sleeve.

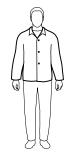
Sizes: S - 5XCase Pack: 30



Labcoat **C8140** 

SafeGard® Lab Coat, snap closure, no pockets, long sleeve. **Sizes**: S − 5X

Case Pack: 30



Shirt **C8201** 

SafeGard® Shirt, snap closure, long sleeves. Sizes: S - 5X

Case Pack: 50



Coverall

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

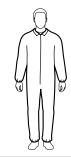
**C8412** 

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



**Pants C8301** 

Case Pack: 50

SafeGard® Pants, elastic waist. Sizes: S - 5X



All SafeGard® garments are available in white or Sky Blue. For Sky Blue, add a "B"

at the end of the style

number.

# SafeGard® Economy SMS













# Lighter in weight and more breathable. That's the benefit of SafeGard® Economy SMS.

SafeGard® Economy SMS garments are an economical version of SafeGard® SMS and offer similar protection. SafeGard® Economy SMS garments can be used in work environments where hazardous or non-hazardous contaminants may be present. With a fabric weight of 45 grams, these garments are lighter and offer better breathability and increased comfort, meeting ANSI/ISEA 101-1996 sizing requirements. No pockets or elastic in back help to keep the cost low. Available in white or blue.

# **Economy SMS Physical Properties**

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	1.5 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	25 lbs.
Grab Tensile XD	ASTM D5034	lbs.	20 lbs.
Trap Tear MD	ASTM D5733	lbs.	7.9 lbs.
Trap Tear XD	ASTM D5733	lbs.	6.7 lbs.



Coverall E8412 SafeGard® Coverall, zipper closure. **Sizes**: S − 5X Case Pack: 25



E8414 SafeGard® Coverall, zipper closure, attached hood, boots, elastic wrists.

Coverall

**Sizes**: S − 5X Case Pack: 25



Coverall E8417 SafeGard® Coverall, zipper closure, elastic wrists and ankles. **Sizes**: S − 5X Case Pack: 25



Coverall E8428 SafeGard® Coverall, zipper closure, attached hood, elastic wrists and ankles. **Sizes**: S − 5X Case Pack: 25



**All Economy SMS** garments are available in white or For Blue, add a "B" at the end of the style number.

# Pyrolon® Plus 2



**Dry Particulate** 











# Perfect for use over thermally protective and arc protective clothing!

From coveralls to lab coats to dosimeter stripped nuclear wear, disposable clothing of Pyrolon® Plus 2 come with all the essential features, distinct advantages and assurances of protection that only quality design and materials can deliver.

- Second generation Pyrolon® Plus 2 offers wet or dry strength superior to that provided by other traditional Flame Resistant disposables
- Can be used to comply with Section 5.1.3 "End User Requirements" of NFPA 2113.
- Pyrolon® Plus 2 is breathable, making this a cool and comfortable garment to wear.

Pyrolon® Plus 2 can be used in work environments where hazardous or non-hazardous contaminants may be present. Pyrolon® Plus 2 quality standards meet ANSI/ISEA 101.

Pyrolon® Plus 2 Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y <sup>2</sup>	2.4 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	31.0 lbs.
Grab Tensile XD	ASTM D5034	lbs.	20.0 lbs.
Trapezoidal Tear MD	ASTM D5733	lbs.	4.5 lbs.
Trapezoidal Tear CD	ASTM D5733	lbs.	5.6 lbs.
Air Permeability	ASTM D737	cfm	52 cfm
Char Length MD	ASTM D6413	inches	3.70 inches
Char Length XD	ASTM D6413	inches	3.70 inches
Ignition Point	_	degrees F	1000° F
Charge Decay	NFPA 99		Pass

Do not use for fire protection. Avoid open flame or intense heat. Pyrolon® Plus 2 garments are not washable. Washing removes the special finishes, thereby removing the flame retardancy, water and oil repellent characteristics.



## Labcoat 07101

Pyrolon® Plus 2 Lab Coat, snap closure, 2 pockets, long sleeve. **Sizes**: S – 5X Case Pack: 30



### Labcoat 07140

Pyrolon® Plus 2 Lab Coat, snap closure, no pockets, long sleeve. **Sizes**: S − 5X

Case Pack: 30



### Shirt 07201

Pyrolon® Plus 2 Shirt, snap closure, long sleeves. Sizes: S - 5X Case Pack: 50



### Coverall 07412

Pyrolon® Plus 2 Coverall, zipper closure. Sizes: S - 5X

Case Pack: 25



### Coverall 07414

Pyrolon® Plus 2 Coverall, zipper closure, attached hood, boots, elastic wrists.

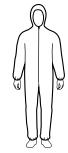
**Sizes**: S - 5X Case Pack: 25



## Coverall 07417

Pyrolon® Plus 2 Coverall, zipper closure, elastic wrists and ankles. Sizes: S - 5X

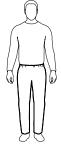
Case Pack: 25



### Coverall 07428

Pyrolon® Plus 2 Coverall, zipper closure, attached hood, elastic wrists and ankles.

Sizes: S - 5XCase Pack: 25



# **Pants** 07301

Pyrolon® Plus 2 Pants, elastic waist. Sizes: S - 5XCase Pack: 50



# **Boot Cover**

Pyrolon Plus 2 Boot Cover, elastic top, 17" high.

Sizes: S/M, L/XL, 2X Case Pack: 200 pair



**Bell Shape Hood** 

Pyrolon® Plus 2 Bell Shape Hood. Sizes: One Size Case Pack: 250



All Pyrolon® Plus 2 garments are available in white or Blue. For Blue, add a "B" at the end of the style number.

# Pyrolon® XT



### **Dry Particulate**

### **Flame Retardant**









## Pyrolon® XT coveralls are "Tough as Nails"!

These flame retardant coveralls from Lakeland feature a set-in sleeve design meeting ANSI/ISEA 101-1996 so you can move easily and not worry about rip-outs. 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 comfortably over Nomex® or Indura® FR garments to help keep grease and grime off the more expensive coveralls without compromising their properties. Pyrolon® XT is a cost effective garment for applications where FR clothing is required, such as on-site contractors or visitors. Pyrolon® XT can be used in work environments where hazardous or nonhazardous contaminants may be present.

# Pyrolon® XT Physical Properties

Physical Property	Test Method	Units	Test Results
Basis Weight	ASTM D3776	oz/y²	2.9 oz/y <sup>2</sup>
Grab Tensile MD	ASTM D5034	lbs.	35.0 lbs.
Grab Tensile XD	ASTM D5034	lbs.	27.3 lbs.
Trapezoidal Tear MD	ASTM D5733	lbs.	9.6 lbs.
Trapezoidal Tear CD	ASTM D5733	lbs.	14.8 lbs.
Char Length MD	ASTM D6413	inches	4.0 inches
Char Length XD	ASTM D6413	inches	3.5 inches

Can be used to comply with Section 5.1.3 "End-User Requirements" of NFPA 2113





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



Coverall 27428

Pyrolon® XT Coverall, zipper closure, attached hood, elastic wrists and ankles. Sizes: S – 5X

Case Pack: 25

Do not use for fire protection. Avoid open flame or intense heat. Pyrolon® XT garments are not washable. Washing removes the special finishes, thereby removing the flame retardancy, water and oil repellent characteristics.

# Pyrolon® CRFR





Light Liquid Protection



Liquid Splash/ Chemical Barrier







# 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, hazardous liquids and contaminants, and dry particulates from penetrating to inner clothing.

## Pyrolon® CRFR features:

- Light chemical splash protection
- Self extinguishing
- Won't melt or drip
- Meets NFPA 2113 requirements
- Designed to be worn over woven thermally protective coveralls, such as woven Nomex®, for environments where flash fire is a concern.



51100 Coverall, collar, storm flap over zipper, open wrists and ankles hemmed cuff. Sizes: S - SXL Case Pack: 6



51110
Coverall, collar, storm flap
over zipper, elastic wrists
and ankles.
Sizes: S - 5XL
Case Pack: 6



**51250**Jacket, collar, elastic wrists, double storm flap with hook and loop closure. **Sizes:** S - 5XL **Case Pack:** 6



**51300 Pant**Pant, elastic waist and ankles. **Sizes**: M-4X **Case Pack**: 6



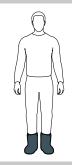
51130 Coverall, hood, elastic face, storm flap over zipper, wrists, and ankles. Sizes: S - 5XL Case Pack: 6



**51150**Coverall, hood, elastic face and wrists, storm flap over zipper, attached boots. **Sizes:** S - 5XL **Case Pack:** 6



Apron, long sleeve, elastic wrists, 32" length. Sizes: S-4X Case Pack: 12



51740 Boot covers, elastic top, 17" high. Sizes: One size Case Pack: 200 pair

# Pyrolon® CRFR Physical Properties, 2.5 Mil

Physical Property	Test Method	Units	Test Results
Basis Weight		oz./sq. yd	4.92
Grab Tensile MD		lbs.	34
Grab Tensile XD		lbs.	27
Mullen Burst		lbs./sq.in.	35
Char Length MD		inches	4.7
Char Length XD		inches	4.5
Afterflame		seconds	<2
Thermal Protective Performance (TPP)		cal./cm <sup>2</sup>	6.8
Charge Decay	NFPA 99		Pass
Surface Resistance	EN1149-1:2006		Pass

# Pyrolon® CRFR Penetration Data, 2.5 Mil, ASTM F903

Challenge Chemical	CAS Number	Physical State	Permeation Result
Acetone	67-64-1	Liquid	>60
Acetonitrile	75-05-8	Liquid	>60
Benzene			>60
Carbon Disulfide	75-15-0	Liquid	>60
Diesel Fuel	N/A	Liquid	>60
Diethylamine	109-89-7	Liquid	>60
Crude Oil	N/A	Liquid	>60
Ethyl Acetate	141-78-6	Liquid	>60
n-Hexane	110-54-3	Liquid	>60
Hexamethylene Diisocyanate			>60
Hydrochloric Acid			>60
Methanol	67-56-1	Liquid	>60
Methyl Ethyl Ketone (MEK)	78-93-3		>60
Methyl Isobutyl Ketone			>60
Monochlorobenzene			>60
n-Butyl Acetate			>60
Orthodichlorobenzene, Grade F			>60
Polychlorinated Biphenyl (PCB)			> 60
Sodium Hydroxide, 50%	1310-73-2	Liquid	>60
Sulfuric Acid, 98%	7664-93-9	Liquid	45
Surrogate Gasoline (Toulene 50%) (Isooctane 50%)	108-88-3 540-81-1	Liquid	>60
Tetrachloroethylene	127-18-4	Liquid	>60
Toluene	108-88-3	Liquid	>60
Trichlorobenzene Mixture			>60
Xylene			>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.







**Dry Particulate** 





Heat Sealed Seams







### **Entry Level Chemical Protective Garment.**

You've come to expect quality from Lakeland Industries. We've utilized our vast knowledge in the industry to develop a superior product in ChemMax® 1. Offering quality along with durability, this cost-effective entry level product will please distributors, safety engineers and plant purchasing managers. Whether you are in manufacturing, environmental clean up or chemical handling, you can trust the ChemMax® family of products to protect your workers from harm.

ChemMax® is constructed with a unique polyethylene barrier film and a continuous filament polypropylene nonwoven.
ChemMax®1 garments bar many harmful contaminants from penetrating to inner clothing. Available with serged, bound and sealed seams for scalability, ChemMax® fits the Lakeland standard at a price you can afford.



C5412 Serged Seam C55412 Bound Seam Coverall, zipper with storm flap. Sizes: S – 5XL Case Pack: 25



C5414 Serged Seam C55414 Bound Seam Coverall, zipper with storm flap, attached hood, boots, elastic wrists. Sizes: S – SXL Case Pack: 25



C5417 Serged Seam C55417 Bound Seam Coverall, zipper with storm flap, elastic wrists and ankles. Sizes: S – 5XL Case Pack: 25



C5428 Serged Seam C55428 Bound Seam Coverall, zipper with storm flap, attached nood, elastic wrists and ankles. Sizes: S – 5XL Case Pack: 25



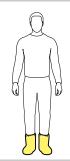
C70110 Sealed Seam Coverall, collar, elastic wrists and ankles, storm flap over zipper. Sizes: S – 5XL Case Pack: 6



C70130 Sealed Seam Coverall, hood, elastic face, wrists and ankles, storm flap over zipper. Sizes: S – 5XL Case Pack: 6



C70150 Sealed Seam Coverall, hood, elastic face, wrists, attached boots, storm flap over zipper. Sizes: S – 5XL Case Pack: 6



C5903 Serged Seam Boot Cover Elastic top, 17" high. Sizes: S/M, LG/XL, 2X Case Pack: 200 pair

# ChemMax® 1 Physical Properties

Property	Test Method	Units	ChemMax® 1
Basis Weight	ASTM D3776	oz/sy	2.29
Grab Tensile MD	ASTM D5034	pounds	35
Grab Tensile XD		pounds	27
Trapezoidal Tear MD	ASTM D5733	pounds	13.8
Trapezoidal Tear XD		pounds	14.2
Ball Burst	ASTM D751	pounds	25.5

# Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Challenge Chemical	CAS Number	Physical State	ChemMax® 1
Acetone	67-64-1	Liquid	imm.
Acetonitrile	75-05-8	Liquid	imm.
Ammonia Gas	7664-41-7	Gas	imm.
1,3-Butadiene Gas	106-99-0	Gas	imm.
Carbon Disulfide	75-15-0	Liquid	imm.
Chlorine Gas	7782-50-5	Gas	imm.
Dichloromethane	75-09-2	Liquid	imm.
Diethylamine	109-89-7	Liquid	imm.
Dimethyl Formamide	68-12-2	Gas	40 minutes
Ethyl Acetate	141-78-6	Liquid	imm.
Ethylene Oxide Gas	75-21-8	Gas	imm.
n-Hexane	110-54-3	Liquid	imm.
Hydrogen Chloride Gas	7647-01-0	Gas	imm.
Methanol	67-56-1	Liquid	imm.
Methyl Chloride Gas	74-87-3	Gas	imm.
Nitrobenzene	98-95-3	Liquid	45 minutes
Sodium Hydroxide, 50%	1310-73-2	Liquid	>480
Sulfuric Acid, 98%	7664-93-9	Liquid	>480
Tetrachloroethylene	127-18-4	Liquid	imm.
Tetrahydrofuran	109-99-9	Liquid	imm.
Toluene	108-88-3	Liquid	imm.

ND = None Detected

- > = greater than
- L = liquid
- G = gas

Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

# Warnings:

- 1. ChemMax® 1 is not flame resistant and should not be used around heat, flame sparks, or in potentially flammable or explosive environments.
- 2. Garments made of ĆhemMax® 1 should have slip resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

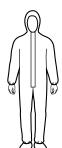
**Note:** Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.

# ChemMax® 2 offers quality, value, durability and the proven protection of Dow Saranex® 23P

barrier film.

ChemMax® 2 is the second level of barrier protection in the new ChemMax® line of products from Lakeland Industries. ChemMax® 2 is a superior and economical chemical protective suit developed using the knowledge and expertise that you have come to expect from Lakeland. The unparalleled strength and softness of ChemMax® 2' features Dow Saranex® 23P film on two layers of a unique bi-component spunbond nonwoven substrate and provides protection for chemical mixing and handling, environmental clean up, hazardous materials remediation and response, pharmaceutical manufacturing, spray painting and general industry. ChemMax® 2 is useful in protecting against hazardous chemicals and contaminants found in the work place.

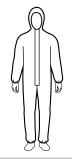




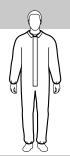
C44414 Bound Seam Coverall, storm flap over zipper, attached hood, boots, elastic wrists. Sizes: S – 5XL Case Pack: 12



C44417 Bound Seam Coverall, storm flap over zipper, elastic wrists and ankles. Sizes: S – 5XL Case Pack: 12



C44428 Bound Seam Coverall, storm flap over zipper, attached hood, elastic wrists and ankles. Sizes: S – SXL Case Pack: 12



C44412 Bound Seam

Coverall, storm flap over

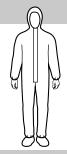
zipper. **Sizes**: S – 5XL

Case Pack: 12

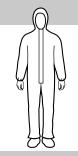
C72110 Sealed Seam Coverall, collar, storm flap over zipper, elastic wrist and ankles. Sizes: 5 – 5XL Case Pack: 6



C72130 Sealed Seam Coverall, hood, storm flap over zipper, elastic face, wrists and ankles. Sizes: S – 5XL Case Pack: 6

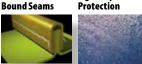


C72150 Sealed Seam Coverall hood, storm flap over zipper, elastic face, elastic wrists, and attached boots. Sizes: S – SXL Case Pack: 6



C72165 Sealed Seam
Coverall, respirator fit hood,
storm flap over zipper,
attached boots with boot
flaps, Velcro® closure over
zipper.
Sizes: S – SXL
Case Pack: 6

# Light Liquid Heat Sealed Protection Seams







# ChemMax® 2 Physical Properties

Property	Test Method	Units	ChemMax® 2
Basis Weight	ASTM D3776	oz/sy	4.3
Grab Tensile MD	ASTM D5034	pounds	47
Grab Tensile XD		pounds	33.9
Trapezoidal Tear MD	ACTM 05722	pounds	29.95
Trapezoidal Tear XD	ASTM D5733	pounds	12.47
Ball Burst	ASTM D751	pounds	48
Surface Resistance	EN1149-1:2006	Pass/Fail	Pass

# Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Challenge Chemical	CAS Number	Physical State	ChemMax® 2
Acetone	67-64-1	Liquid	9
Acetonitrile	75-05-8	Liquid	<15
Ammonia Gas	7664-41-7	Gas	15
1,3-Butadiene Gas	106-99-0	Gas	>480
Carbon Disulfide	75-15-0	Liquid	imm.
Chlorine Gas	7782-50-5	Gas	>480
Dichloromethane	75-09-2	Liquid	imm.
Diethylamine	109-89-7	Liquid	imm.
Dimethyl Formamide	68-12-2	Gas	18
Ethyl Acetate	141-78-6	Liquid	21
Ethylene Oxide Gas	75-21-8	Gas	24
n-Hexane	110-54-3	Liquid	21
Hydrogen Chloride Gas	7647-01-0	Gas	>410
Methanol	67-56-1	Liquid	>480
Methyl Chloride Gas	74-87-3	Gas	>480.
Nitrobenzene	98-95-3	Liquid	45
Sodium Hydroxide, 50%	1310-73-2	Liquid	>480
Sulfuric Acid, 98%	7664-93-9	Liquid	>480
Tetrachloroethylene	127-18-4	Liquid	imm.
Tetrahydrofuran	109-99-9	Liquid	imm.
Toluene	108-88-3	Liquid	imm.

ND = None Detected

> = greater than

L = liquid

G = gas

Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

### Warnings

- 1. ChemMax® 2 is not flame resistant and should not be used around heat, flame sparks, or in potentially flammable or explosive environments.
- 2. Garments made of ChemMax® 2 should have slip resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

**Note:** Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.



Liquid Splash/ **Chemical Barrier** 









## Advanced chemical protection for industrial, emergency responder and law enforcement.

ChemMax® 3 uses the latest technology to produce a superior product. Durable and lightweight, ChemMax® 3 provides a barrier against a broad spectrum of toxic industrial chemicals, dual use chemicals, chemical warfare agents and other harmful contaminants.

The multi-layer film is applied to a heavy polypropylene nonwoven for increased strength and durability. The barrier film is significantly softer than other products on the market, resulting in a quiet, more comfortable

Put your trust in a ChemMax® 3 garment and you will feel confident that you are doing your best to protect your team from the dangers lurking around them.



### C3T110

Coverall, collar, storm flap over zipper, elastic wrists and ankles.

Sizes: S-5XL Case Pack: 6



### C3T130

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

Case Pack: 6



### C3T150

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

Case Pack: 6



### C3T151

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

Case Pack: 6



#### C3T165N NFPA 1992, 2007 Edition

Coverall, attached respirator-fit hood, double storm flap with hook and loop closure, elastic face and wrists, attached boots with boot flaps, sealed

Sizes: S – 5XL Case Pack: 6



### C3T166

Coverall, respirator fit hood, double storm flap over zipper, elastic wrists and ankles, Velcro® closure over zipper.

Sizes: S – 5XL Case Pack: 6



### C3T400

Case Pack: 1

Encapsulated suit, rear entry, flat back, 48" zipper, storm flap, 20 mil PVC face shield, elastic wrists, 1 exhaust port with shroud, air tube inlet, attached sock boots with boot flap. Suit is not gas/vapor tight. Sizes: S - 5XL



# C3T450, Level B

Case Pack: 1

Encapsulated suit, rear entry, expanded back, 48" zipper, double storm flap, 20 mil PVC face shield, elastic wrists, 2 exhaust ports with shroud, attached sock boots with boot flap. Suit is not gas/vapor tight. Sizes: S - 5XL

# **ChemMax® 3 Physical Properties**

Property	Test Method	Units	ChemMax® 3
Basis Weight	ASTM D3776	oz/sy	4.5
Grab Tensile MD	ASTM D5034	pounds	58.7
Grab Tensile XD		pounds	42.2
Trapezoidal Tear MD	46714 05722	pounds	25.6
Trapezoidal Tear XD	ASTM D5733	pounds	19.8
Ball Burst	ASTM D751	pounds	54.5
Surface Resistance	EN1149-1:2006	Pass/Fail	Pass

# Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Challenge Chemical	CAS Number	Physical State	ChemMax® 3
Acetone	67-64-1	Liquid	>480
Acetonitrile	75-05-8	Liquid	>480
Ammonia Gas	7664-41-7	Gas	>480
1,3-Butadiene Gas	106-99-0	Gas	>480
Carbon Disulfide	75-15-0	Liquid	178
Chlorine Gas	7782-50-5	Gas	>480
Dichloromethane	75-09-2	Liquid	>480
Diethylamine	109-89-7	Liquid	imm.
Dimethyl Formamide	68-12-2	Gas	>480
Ethyl Acetate	141-78-6	Liquid	>480
Ethylene Oxide Gas	75-21-8	Gas	>480
n-Hexane	110-54-3	Liquid	>480
Hydrogen Chloride Gas	7647-01-0	Gas	>480
Methanol	67-56-1	Liquid	>480
Methyl Chloride Gas	74-87-3	Gas	>480.
Nitrobenzene	98-95-3	Liquid	>480
Sodium Hydroxide, 50%	1310-73-2	Liquid	>480
Sulfuric Acid, 98%	7664-93-9	Liquid	>480
Tetrachloroethylene	127-18-4	Liquid	>480
Tetrahydrofuran	109-99-9	Liquid	320
Toluene	108-88-3	Liquid	>480

ND = None Detected

> = greater than L = liquid

G = gas

Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

## Warnings:

1. ChemMax® 3 is not flame resistant and should not be used around heat, flame sparks, or in potentially flammable or explosive environments.

2. Garments made of ChemMax® 3 should have slip resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

**Note:** Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.











## Heavy Duty Chemical Splash Protection that is high in performance and comfort!

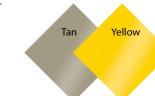
This line of high performance chemical protection can be used in work environments where hazardous or non-hazardous contaminants may be present.

ChemMax® 4 is at the top of the ChemMax line of clothing. ChemMax® 4 features a 6 layer protective barrier that will stand up to the toughest of hazardous chemical environments.

### ChemMax® 4 Colors

ChemMax® 4 chemical clothing is available in 3 different colors; dark green, yellow and tan. The second number in the Lakeland style number designates the color.

Yellow = 1 Tan = 2





### 41130 (Yellow) 42130 (Tan)

ChemMax® 4 coverall, hood, elastic face, storm flap over zipper, elastic wrists and ankles.

Sizes: S - 5X Case Pack: 6



#### 41150 (Yellow) 42150 (Tan)

ChemMax® 4 coverall, hood, elastic face, storm flap over zipper, elastic wrists and attached boots.

Sizes: S - 5XCase Pack: 6



41151 (Yellow) 42151 (Tan)

ChemMax® 4 coverall, respirator fit hood, storm flap over zipper, elastic face and wrists, attached boots. **Sizes**: S − 5X

Case Pack: 6



### 41165 (Yellow) 42165 (Tan)

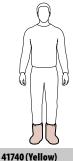
ChemMax® 4 coverall. respirator fit hood, double storm flap with hook and loop closure, elastic face and wrists, attached sock boots with boot flaps.

Sizes: S - 5XCase Pack: 6



### 41716 (Yellow) 42716 (Tan)

ChemMax® Long Bib style hood, 20 mil PVC lens. Sizes: One Size Case Pack: 6



42740 (Tan)

ChemMax® Boot Covers, elastic top. **Sizes**: One Size Case Pack: 12 pair



### 41450 (Yellow) 42450 (Tan)

Encapsulated suit, rear entry, expanded back, 48" zipper, double storm flap, 20 mil PVC face shield, elastic wrists, 2 exhaust ports with shroud, air tube inlet, attached sock boots with boot flap. Suit is not gas/vapor tight.

Sizes: M - 4XI Case Pack: 3

# ChemMax® 4 Physical Properties

Property	Test Method	Units	ChemMax® 4	
Basis Weight	ASTM D3776	oz/sy	6.5	
Grab Tensile MD	ASTM D5034	pounds	112	
Grab Tensile XD	A31WLD3U34	pounds	90	
Trapezoidal Tear MD	ASTM D5733	pounds	51.2	
Trapezoidal Tear XD	ASTM DS/SS	pounds	37.2	
Ball Burst	ASTM D751	pounds	141	

# Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Challenge Chemical	CAS Number	Physical State	ChemMax® 4
Acetone	67-64-1	Liquid	>480
Acetonitrile	75-05-8	Liquid	>480
Ammonia Gas	7664-41-7	Gas	>480
1,3-Butadiene Gas	106-99-0	Gas	>480
Carbon Disulfide	75-15-0	Liquid	>480
Chlorine Gas	7782-50-5	Gas	>480
Dichloromethane	75-09-2	Liquid	>480
Diethylamine	109-89-7	Liquid	>480
Dimethyl Formamide	68-12-2	Gas	>480
Ethyl Acetate	141-78-6	Liquid	>480
Ethylene Oxide Gas	75-21-8	Gas	>480
n-Hexane	110-54-3	Liquid	>480
Hydrogen Chloride Gas	7647-01-0	Gas	>480
Methanol	67-56-1	Liquid	>480
Methyl Chloride Gas	74-87-3	Gas	>480.
Nitrobenzene	98-95-3	Liquid	>480
Sodium Hydroxide, 50%	1310-73-2	Liquid	>480
Sulfuric Acid, 98%	7664-93-9	Liquid	>480
Tetrachloroethylene	127-18-4	Liquid	>480
Tetrahydrofuran	109-99-9	Liquid	>480
Toluene	108-88-3	Liquid	>480

ND = None Detected

> = greater than

L = liquid

Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

## Warnings:

- 1. ChemMax® 4 is not flame resistant and should not be used around heat, flame sparks, or in potentially flammable or explosive environments.
- 2. Garments made of ChemMax® 4 should have slip resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

**Note:** Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.

# Interceptor®



**Interceptor® Physical Properties** 

**Test Method** 

ASTM D3776

ASTM D5034

**ASTM D5034** 

**ASTM D5733** 

**ASTM D5733** 

**ASTM D3787** 

**Physical** 

Phase

G

G

G

1

G

G

L

Permeation Data for ASTM Recommended List of Chemicals

for Evaluating Protective Clothing Materials (ASTM F1001)

**Physical Property** 

**Basis Weight** 

Grab Tensile MD

**Grab Tensile XD** 

Trapezoidal Tear MD

Trapezoidal Tear CD

**Chemical Name** 

Ball Burst

Acetone

Ammonia (gas)

1,3-Butadiene Carbon disulfide

Chlorine gas

Dichloromethane

Diethylamine N,N-Dimethylformamide

Ethyl acetate

n-Hexane

Methanol Methyl chloride

Nitrobenzene

Sodium hydroxide, 50%

Sulfuric acid (conc.)

Tetrachloroethylene

Tetrahydrofuran

Toluene

Ethylene oxide

Hydrogen chloride

Liquid Splash/ Chemical Barrier



Units

oz/y2

lbs.

lhs

lbs.

lbs.

lbs.

Normalized Break-

through Time (min.)

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480

>480



**Test Results** 

9

216 lbs.

165 lbs.

43.7 lbs.

57.9 lbs.

173 lbs.

CAS No.

67-64-1

75-05-8

7664-41-7

106-99-0

75-15-0

7782-50-5

75-09-2

109-89-7

68-12-2

141-78-6

75-21-8

110-54-3

7647-01-0

67-56-1

74-87-3

98-95-3

1310-73-2

7664-93-9

127-18-4

109-99-9

108-88-3



Interceptor® is the apex of Lakeland Industries' chemical protective clothing line. Manufactured to both NFPA 1991 and CE type 1 requirements and available in encapsulating and non-encapsulating configurations, there is an Interceptor® suit for your needs be it gas, vapor, aerosol, liquids, harmful contaminants or particulate protection.

# **Interceptor Features**

- PTFE visor process permanently seals the visor into the suit with no sewing involved so that liquids can't penetrate the visor edge
- Certified to optional Flash Fire Protection for Escape Only requirements of NFPA 1991
- Available in NFPA 1991 and CE Type 1 certified ensembles as well as non-certified encapsulating and non-encapsulating configurations
- PTFE outer layer on visor prevents impairment of vision due to chemical contact





# 80650W - Wide-View **Face Shield**

Blue CE Type 1:EN943:2005 Vapor tight (Level A) Deluxe Ensemble-Fully encapsulated, rear-entry vapor-protective suit. Available in wide-view face shield configuration as 80650W. Sizes: S - 5X

Case Pack: 1



## > = greater than, L = liquid, G = gas

**Note:** Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.



# 80645W - Wide-View **Face Shield**

Blue Vapor tight (Level A) NFPA 1991, 2005 Certified Ensemble-Fully encapsulated, front-entry vapor-protective suit. Available in wide-view face shield configuration as 80645W.

**Sizes**: S − 5X Case Pack: 1

### 80655 80655W - Wide-View **Face Shield**

Blue Vapor tight (Level A) NFPA 1991, 2005 Certified Ensemble- Fully encapsulated, rear-entry vapor-protective suit. Available in wide-view face shield configuration as 80655W.

Case Pack: 1

**Sizes**: S − 5X

**Face Shield** Blue CE Type 1:EN943:2005 Vapor tight (Level A) Deluxe Ensemble- Fully encapsulated, front-entry vapor-protective suit. Available in wide-view face shield configuration as

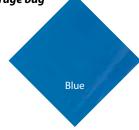
80640W - Wide-View

80640W. **Sizes**: S - 5X Case Pack: 1

# All NFPA certified Interceptor® ensembles include Tingley HazProof® boots and a storage bag



For an instructional video on how to perform an encapsulated chemical suit pressure test, go to the Lakeland web site at www.lakeland.com





# Permeation Data for 595 Class/Subclass **Chemical Warfare Agents**

Agent	Common Name	CAS Number Breakthroug Time	
GA	Tabun	77-80-6	> 60 min.
GB	Sarin	107-44-8	> 60 min.
GD	Soman	99-64-0	> 60 min.
HD	Sulfur Mustard	505-60-2	> 60 min.
L	Lewisite	541-25-3	> 60 min.
VX	VX	50782-69-9	> 60 min.

Testing stopped at 60 minutes in accordance with NFPA 1991, 2005 requirements > = greater than, < = less than, nt = not tested

# Chemical Options and Accessories





### LEVEL A/NFPA Test Kit

Maintain your encapsulated suits with this easy to use test kit. Kit features an easy-to-read Magnehelic pressure gauge, digital timer, sturdy brass and steel fittings, hoses and connectors in a waterproof case. Complete instructions included.

Part No. 00010 - Level A Test Kit Part No. 00011 - NFPA Test Kit Part No. 00013 - Twist Lock valve fitting

**Option Description** 

Part No. 00015 - Adaptor for test kit to test DuPont Level A Suits

Part No. 00017 - Adapters for DuPont test kit to test Lakeland suits.

Part No. 00200 – Universal test kit for DuPont, Lakeland, and Kappler Level A and NFPA Certified suits. Features an integrated blower for suit inflation.

Scott ® pass-thru (not NIOSH approved)



## **Quick Disconnect Assembly for Gloves** Option G7

Replacing the gloves on your encapsulated suit is a snap with this quick disconnect assembly. Twist off-twist on action makes for easy removal and installation. Outer replacement assemblies available.



# One Glove System, Option G3

The ONEGlove® system consists of a Hazmat glove which has a Kevlar® outer glove, Nomex® inner glove, and a Fluoropolymer barrier film.



# **Hook and Loop Closure Boot Flap** Option B1

Get your boots on and off easier with this hook and loop closure feature. After donning chemical boots, simply press the hook and loop closure together and you are ready to roll!

# Options for Lakeland Interceptor® Level A and B Chemical Suits

• p •	Description		Scott pass tilla (not mosh approvea)
A1	Add 1 side air tube	P4	Survivair® pass-thru with Hanson® fittings
B1	Add hook and loop to boot flaps	P6	Draegar pass-thru with Hanson® fittings
F1	Add 10 mil Teflon® faceshield	P7	Draegar pass-thru with Foster® fittings
F3	Add 20 mil PVC faceshield	P9	MSA Dual Purpose® pass-thru with Hanson® fittings
		P10	MSA Quick Fill® pass-thru
F4	Add 40 mil PVC faceshield	P14	North pass-thru with Hanson® fittings
G3	Add OneGlove® system to chemical suit	P17	MSA Dual Purpose pass-thru with brass Foster fitting
G5	Seal-tight glove system	P18	MSA Wall-thru unit
G6	North Silvershield® gloves heat sealed to suit	R2	Reinforce crotch and elbows
G7	Quick disconnect assembly for gloves	R4	Reinforce elbows
G8	Replacement quick disconnect outer glove assembly, Butyl® (per		Reinforce knees
pair)		R5	
G9	Replacement quick disconnect outer glove assembly, Viton® (per	S1	Add sleeve guards
pair)	7 7	S2	Add double storm flap with hook and loop closure
GA	Glove 0-ring and clamp assembly	S3	Add double storm flap with snaps
11	Inspect, retest and recertify Level A suit*	V1	Add 1 exhaust valve with cover
12	Install customer supplied pass-thru	V2	Add 2 exhaust valves with covers
N1	Add reflective numbers or letters to suit (4 max) each	Z1	Invert zipper on Level A
14.1	Add Tellective Hallibers of Tetters to suit (+ max) each		

# Accessories for Interceptor® Level A and B chemical suits

Scott® pass-thru with Hanson® fittings

<b>Option</b>	Description	Cooling Vest	
Gloves	nuc I :	00055 00056	Phase Change® Vest, poly cotton outershell Phase Change® Vest, Banox® (FR Cotton) outershell
00001 00020	PVC glove ring 25 mil Butyl gloves	00057	Set of 4 Phase Change® inserts
00021	Viton® gloves	00058	Phase Change® Vest, Nomex® outershell
00024 00025	17 mil Butyl glove North Silvershield® gloves	Storage Bags	
00027	Kevlar® knit gloves	00750 00760	Level A storage bag Lakeland Utility Bag (Small)
Boot Covers and Boots		00770	Lakeland Utilitý Bag (Large)
00045 00046	Onguard EZ Fit Hazmax® boots (NFPA Certified) Tingley® Hazmat Boots (NFPA Certified)	Valves	
00040	riligiey nazinat boots (NFFA Certified)	00014	Exhaust Valve

# WARNING! THESE SUITS ARE FOR TRAINING IN LEVEL A PROCEDURES ONLY! **DO NOT USE IN ACTUAL HAZMAT ENVIRONMENTS!**



entry, expanded back, Mylar® lens, bound

seams. Training Use Only! Case Pack: 6

**Encapsulated** Nylon/ PVC Training Suit 95494 (Rear 95493 (Front

Encapsulated Nylon /PVC Training Suit, expanded back, sewn seams, 20 mil PVC faceshield, single storm flap, butyl gloves, 2 exhaust ports, attached sock boots. Training Use Only! Case Pack: 1

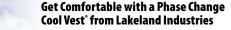


with expanded back. Training suit with a 20 Mil PVC lens, 48" non separator cloth zipper that zips from bottom to top, zipper is reinforced at top and bottom with webbing on the outer side, double storm flap, exhaust port on back right side of hood, 1 exhaust port on left back side of body, sock boots, boot flaps sewn on, PVC gloves sewn on, Internal belt loops and assembled belt. No hem on splash guard or dump valve

# Phase Change Cool Vest

Wear a Cool Vest underneath a chemical protective suit and stay cool!





Working in HazMat/Protective suits can make anyone lose their cool. The Phase Change Cool Vests worn under these suits give the user a greater degree of comfort. In fact, it creates a climate of 58° F. /14° C for up to three hours (depending on work environment).

## **How Do They Work?**

These vests create a cooling energy from a unique Phase Change Material that is mechanically sealed in durable inserts. After freezing the inserts in ice water or a refrigerator for just 30 minutes, the vests deliver the constant cool temperature.

Unlike frozen water or gel products, our Phase Change Material maintains a consistent temperature of 58° F. /14° C during its transition from a solid to a liquid. This ensures that the wearer receives a constant cooling temperature throughout the entire two to three hour period.

### Safe and Effective

At Lakeland Industries, we are very concerned about the materials we use in our products. Our Phase Change Material is made of a proprietary blend of alkanes with unique thermal properties. The inserts are non-toxic and non-flammable and can be used over and over again. To achieve continuous cooling, additional insert sets are available so the user can rotate each set.

## **Comfort is Key**

Designed for comfort, these vests are washable and lightweight. The built-in side and shoulder adjustments provide a better fit. To suit a variety of users, the vests come in many styles, sizes and fabrics, including polycotton and Nomex\*.

If you want a safe and effective way to keep your workers cool, get the Phase Change Cool Vest\*, available at Lakeland.

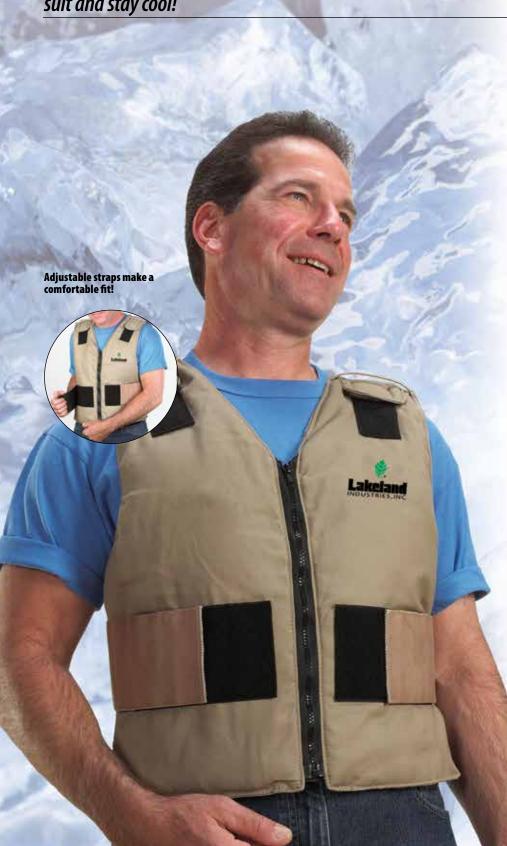
Style 00055 — Polycotton Cool Vest® with Phase Change inserts. Case Pack: 1

Style 00058 – Nomex® Cool Vest® with Phase Change inserts. Case Pack: 1

Style 00056 - Banox (FR Cotton) with Phase Change inserts. Case Pack: 1

Style 00057 — Set of 4 Cool Vest replacement inserts. Case Pack: 1





# **Cut Resistant Gloves and Sleeves**







## 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

# Warranty and Warnings

# **Warranty Information**

It is the responsibility of the user to select garments or 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, (http://www.epa.gov/lawsregs/) 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,** (http://www.osha.gov), AND 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 OR 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 enduse 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 and products 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 provide 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 about what is required under the law and appropriate to your specific work application.

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 the Lakeland protective garment or

product 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 employer and the wearer to inspect Lakeland garments or products prior to use to insure the integrity of the products, garments and components.

If the Lakeland protective product or garment are 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, garments or products in a chemical situation, consult the chemical permeation data appropriate to the garment or product 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 element or 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, ChemMax® or Interceptor® garments will not reduce burn injury during a flash fire. Our products and 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®, ChemMax® and Interceptor® line of products 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 even the potential of same, look to Lakeland's FIRE RESISTANT/RETARDANT APPAREL LINES.

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# All of Your Safety Apparel Needs Under One Roof.









































































































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