



# Hand and Arm Protection Buyers Guide

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## Why Choose Lakeland?

### World's Largest Manufacturer of Protective Clothing

As the largest manufacturer, we are better able to deliver the best, most innovative Protective Clothing products and fabric choices available anywhere on earth... and we're stepping on the gas!

### Know the Maker - We Manufacture Our Own Products

Lakeland protects people. It is our core business. Unlike our competitors, we don't use contractors to make our garments. We make them ourselves, 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.

### 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.

### Award-winning service

In recent months, two of our largest customers have both named us best in customer service and support out of all their many vendors.

### Investing for growth – to serve you better

We're doubling our sales and support personnel, increasing 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.

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



# MicroGard® Anti-microbial Treatment

Anti-Microbial Treatment



Food Service Approved



## Eliminate harmful microbes with this Lakeland antimicrobial treatment

Lakeland Industries MicroGard® antimicrobial eliminates microbes instantly on contact without the use of heavy metals or toxins, and does not create a “zone of inhibition” that leads to the creation of super bugs like MRSA. The “zone of inhibition” created by other heavy metal antimicrobials including copper, silver and zinc allows some microbes to stay alive and mutate which produces organisms that are resistant to the heavy metal antimicrobial compounds.

Lakeland’s MicroGard® antimicrobial attracts microbes using a miniscule electrical charge and punctures their cell wall with a microscopic spike. The effect is instantaneous and therefore does not create a “zone of inhibition” that leads to the creation of a super bug. MicroGard® is an inherent part of the glove fibers, not a topical application, and will not wash off after 40 washes while maintaining its efficacy.

Tested with ASTM E2149 and AATCC100. Test results available upon request.

### Applications

- Passes ASTM E2149
- Passes AATCC Test Method 100
- Microbes Are Eliminated Instantly
- Withstands Up to 40 Washings
- Ionically bonds to fibers to last the life of every fiber in the product.



*In this magnified view, the positively charged surface of MicroGard® attracts the negative charged bacteria. Due to the electrical attraction, the bacteria is drawn into the molecular spikes which puncture the bacteria membrane, eliminating it.*



# Enhand-CR® Anti-microbial Glove

Anti-Microbial Treatment



Cut Resistant



Food Service Approved



## Enhand-CR®, Your FIRST line of defense!

### Cut Resistance

Highest level on ASTM/ISEA 105-2005 Standard

### Dexterity

Excellent flexibility, feel and dexterity

### Launderable

Anti-microbial treatment withstands over 40 washings

### Cost

More economical than lesser cut resistant gloves without antimicrobial features.

### Other design features

Improve areas of premature wear through a patented design process

### Available Styles

Style	Description	Cut Level*	Sizes
96-1745	Natural Enhand-CR® Glove	5	S-XL
96-1754	Blue Enhand-CR® Glove	5	S-XL

\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

### Features

- Passes ASTM E2149
- Passes AATCC Test Method 100
- Microbes Are Eliminated Instantly
- Withstands Up to 40 Washings
- Ionically bonds to fibers to last the life of every fiber in the product.

### Applications

- For all food service industries, poultry, chicken or beef processing
- Passes ASTM E2149
- Passes AATCC Test Method 100
- Can be washed with bleach



# ShurRite Kevlar® Cut Resistant Glove

Cut Resistant



## Kevlar® Aramid Fiber Gloves are Modern Protective Armor!

Lakeland ShurRite safety gloves and sleeves made with DuPont® 100% Kevlar® aramid fiber provide excellent cut resistance for hand and arm protection products. ShurRite offers outstanding cut resistance combined with intermittent heat resistance without affecting their wearers manual dexterity. These tough gloves and sleeves will outlast cotton, leather and coated gloves many times over. They greatly reduce potential injuries to workers hands and contribute to reducing accident claims and insurance costs. Available in various grip-enhancing coatings and patterns.

And, where additional protection from heat is required, ShurRite Kevlar® Terry gloves provide a cushion of air that insulates against high temperature extremes, while Kevlar® adds the cut/slash protection.

### Available Styles

Style	Description	Cut Level*	Size
<b>ShurRite Gloves</b>			
21-843	7 gauge 100% Kevlar® knit glove	2	S-L
21-290	7 gauge 100% Kevlar Knit glove, heavyweight	4	S-XL
21-1634	7 gauge 100% Kevlar® knit glove, black PVC dots (2 sides)	2	S-XL
2100	7 gauge 100% Kevlar® knit glove	2	S-XL
2400LN-2PD	7 gauge 100% Kevlar divers knit glove, black PVC dots (2 sides)	3	S-XL
2200	13 gauge 100% Kevlar® knit glove	2	S-L
2300	100% Kevlar® Terry Seamless knit glove, drop cuff, loop in	3	S-L

### Sleeves - See page 4 for more sleeves and options!

41422	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	14"
41622	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	16"
41822	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	18"
42222	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	22"
42422	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	24"

\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

### Features

- Cut Resistant
- Heat Resistant
- Chemical Resistant (organic solvents; diluted acids)
- Excellent dexterity and flexibility
- Breathable
- Washable

### Applications

- Metal Handling
- Automotive
- Aerospace
- Assembly
- Lumber and Paper
- Office Furniture
- Manufacturing
- Heating and Air Conditioning
- Manufacturing
- Wire and Cable Industries
- Glass Industry



# DextraGard Cut Resistant Glove

Cut Resistant



Food Service Approved



## Spectra® gloves are pound for pound 10x stronger than steel!

Lakeland's DextraGard gloves are for applications that are routinely exposed to extremely sharp blades and edges. DextraGard gloves fiber surface lets the sharp cutting edges roll over the surface of the glove preventing serious injury. Both industrial manufacturing and food processors prefer DextraGard gloves for being rugged and highly resistant to cut, as well as being soft and comfortable. DextraGard reduces hand fatigue that often accompanies repetitive gripping and flexing.



### Available Styles

Style	Description	Cut Level*	Sizes
9600	Heavyweight Spectra® Knit glove with MicroGard®	5	S-XL
9200	13 gauge Lightweight Spectra® Knit glove with MicroGard®	3	S-XL
9500	13 gauge stretch Spectra®	2	S-XL
98-1717	10 gauge Spectra® insulated glove	4	S-XL

### Sleeves - See details on page 4!

9412	DextraGard, 5 1/4" width	5	12"
9414	DextraGard, 5 1/4" width	5	14"
9416	DextraGard, 5 1/4" width	5	16"
9418	DextraGard, 5 1/4" width	5	18"

Other styles available. Contact Customer Service for details.

\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

### Features

- FDA accepted
- Outstanding Cut Resistance
- Soft, Comfortable, Flexible- reduces hand fatigue
- Low Moisture absorption (<2%)
- Breathable
- Washable

### Applications

- Fishing Industry
- Razor Blade Manufacturing
- Food Processing
- Poultry Industry
- Meat Processing
- Boning
- Metal Handling

- Automotive
- Aerospace
- Plastic Extrusion
- Lumber and Paper
- Wire and Cable Industry
- HVAC Industry
- Glass



# DesPro® Cut Resistant Glove

Cut Resistant



## Custom Knit Gloves Put the Protection Exactly Where You Need It!

The DesPro® work gloves build protection exactly where it is needed. The balance of the glove is knitted utilizing a more economical cut resistant yarn where the protection is not as demanding. By using a combination of materials, the result is a product that protects yet costs less.

DesPro® work gloves can be made from any combination of yarns for any industry. From food services, to industrial, to warehouse, Lakeland can spec knit a glove that suits your needs.

Before you place your next order for a more costly glove, try a DesPro® on for size. It just may be the fit you need for your company.

### Available Styles

Style	Description	Sizes
D6F9L	100% Spectra® and Nylon Glove	L
D6F7L	100% Spectra® and Cotton Glove	L
D6F8L	100% Kevlar® and Nylon Glove	L
D6C5L	100% Kevlar® and Grey Cotton Glove	L

### Features

- Single or multiple fingers
- Palm area
- Thumb crotch
- Heel
- Wrist
- Front or back

### Applications

- Medium duty material handling
- Medium to light fabrication
- General warehousing



# Blends Cut Resistant Glove

Cut Resistant



## Performance of Kevlar® with the economy of cotton!

Just as two heads are better than one, Lakeland's special blends of two or more yarns provide superior protection in the work place. Blends give a safety glove Kevlar's tough cut resistance and the flexible comfort and economics of cotton. The result is a rugged, low cost alternative to Kevlar® gloves.

### Applications

- Fabricated Building Materials
- Stone/Brick Manufacturing
- General Maintenance
- Glass Handling
- Petrochemicals
- Fabricated Metals
- Heavy duty Castings



### Available Styles

Style	Description	Cut Level*	Sizes
26-516	7 gauge blended Kevlar® plated glove	2	Mens
32100KCBKW	Kevlar® blended Terry loop-in glove	3	Mens
32110KCBKW	Kevlar® blended Terry loop-in glove	3	Ladies

\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

# Cut Resistant Sleeves

Cut Resistant



## High Performance Fibers Provide Unsurpassed Arm Protection

Lakeland knows the importance of people's arms, and offers its high-tech, proven line of protective sleeves to customers with confidence. Our wide-bodied DextraGard sleeves provide superior cut resistance and flexible comfort to industrial and food industry applications, sheet metal, HVAC, pulp and paper mills and fish/meat processors. These sleeves offer less than 2% moisture absorption, so after laundering they maintain their neat, hygienic appearance longer than other sleeves. Their breathability, washability and economical cost-to-wear ratio make them a popular choice.

Lakeland's line of black sleeves includes products ranging from 4" to 32" in length. They are available in various materials: eg. high strength man-made fibers combined with a stainless steel core (like Grapolator gloves); Thermbar for excellent heat resistance, lightness and dexterity; and black Kevlar® fabrics. All of our black sleeves are ideal in situations where messy applications create unsightly residues.

Where good abrasion and cut resistance, thermal properties and durability are required, Lakeland sleeves of Kevlar® are recommended. These sleeves come in standard 3" widths and wide-body 4 1/4" styles. The wide-bodies are more comfortable for workers that need a larger width sleeve or when the wearer has large arms. The sleeves are also available as combinations of outer Kevlar® with inner cotton, affording the best protection and comfort at an economical price.

### Available Styles

Style	Description	Cut Level*	Sizes
<b>Kevlar® Sleeves</b>			
41022	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	10"
41222	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	12"
41422	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	14"
41622	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	16"
41822	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	18"
42222	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	22"
42422	100% Kevlar® medium weight, 2 ply sleeve, 3" width	2	24"
<b>DextraGard Sleeves</b>			
9410	DextraGard, 5 1/4" width	5	10"
9412	DextraGard, 5 1/4" width	5	12"
9414	DextraGard, 5 1/4" width	5	14"
9416	DextraGard, 5 1/4" width	5	16"
9418	DextraGard, 5 1/4" width	5	18"
<b>Grapolator Sleeves</b>			
93-473	Grapolator sleeve, steel reinforced 4" wide	4	10"

Other sleeve widths and lengths are available; call for details

\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

Available sleeve options can be added to any listed style on their own or in combination.

Option Code	Description
TH	Thumbhole
AC	Alligator Clip
VC	Velcro® Closure
X	Extra Wide

Other options may also be available. Call Customer Service for more detail.

# Grapolator **Cut Resistant** Glove

Cut Resistant



## Stainless Steel Wire Cores Combine with High Strength Fibers for One Tough Glove!

This Lakeland line of extraordinary Grapolator gloves and sleeves offers hand and arm protection to the max. Stainless steel wire core is combined with high-strength man-made fibers to give workers an extremely effective protective glove. These gloves provide super protection from cuts, and for all their "muscle", lose no comfort or manual dexterity properties. Grapolator gloves can be washed in hot water and hot-air dried. Use the Grapolator around sheet metal, knives, sharp plastic edges and glass. Grapolator gloves and sleeves are available in black, gray or blue.

### Features

- High resistance to cuts
- Comfortable and lightweight
- Exceptional wet strength
- Excellent resistance to ultraviolet radiation
- Reversible for longer wear

### Applications

- Steel Industry
- Glass Handling
- Food Processing
- Fishing Industries
- Printing
- Textiles
- Mining
- Construction
- Sugar Cane Industry



93-120



### Available Styles

Style	Description	Cut Level*	Sizes
93-100	Grey, steel reinforced, 10.75", cut resistant	4	S-XL
93-120	Black, steel reinforced, 10.75", cut resistant	4	S-XL
93-125	Blue, steel reinforced, 10.75", cut resistant	4	S-XL

### Sleeves

93-473	Grapolator sleeve, steel reinforced 4" wide	4	10"
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\*ANSI/ISEA 105-2005 Cut Performance Ratings based on ASTM F1790-97 testing protocols

# ThermBar **Intermittent Heat Resistance** Glove

Heat Resistant



## Get a Grip on Product That's Too Hot To Handle with Thermbar Heat Protective Gloves!

Lakeland's intermittent heat resistant gloves made with proprietary Thermbar yarns are the best solutions for problems associated with intermittent handling of hot objects. Thermbar protective gloves are used throughout the glass and automotive industries, and extensively by laboratory workers in all situations where intermittent heat protection is required. Black in color, these gloves are available in a full line of sizes. They may be custom-knit for various levels of heat, and are produced with various high-performance materials, including combinations with Kevlar®.

### Features

- Glass Manufacturers
- Auto Industry
- Laboratories

### Applications

- Metal Handling
- Automotive
- Aerospace
- Assembly
- Lumber and Paper
- Office Furniture Manufacturing
- Heating and Air Conditioning
- Manufacturing
- Wire and Cable Industries
- Glass Industry

### Available Styles

Style	Description	Sizes
6100R	100% Thermbar knit glove	10"
6110	100% Thermbar knit glove	9"
61-1158	100% Thermbar SPOT WELD glove	S-L

# SpiderGrip **Work** Glove

Excellent Grip



**Job fitted for applications where dexterity, flexibility and comfort are desired!**

SpiderGrip gloves will make slips a thing of the past! SpiderGrip crinkle dip latex gloves have a textured palm to provide an excellent grip. The palm of the glove is liquid repellent, while the back provides excellent breathability to keep hands cool while on the job.

**Features**

- Seamless Design
- Puncture resistant
- Ergonomic fit
- Long Wearing

**Applications**

- Light to medium fabrication
- Parts handling
- General warehousing
- Maintenance
- Corrugated Manufacturing
- General purpose handling where light liquids or oils are present



7-1506

7-2506

**Available Styles**

Style	Description	Sizes
7-1506	SpiderGrip polyester cotton latex dipped glove	S-XL
7-2506	SpiderGrip lightweight polyester latex dipped glove	S-XL

# SpiderGrip **Cut Resistant** Glove

Cut Resistant



Puncture Resistant



**Kevlar® Fibers provide that extra level of cut and puncture protection!**

Knitted with either Kevlar® or High Performance Polyethylene (HPPE) these styles offer the same comfort, breathability and dexterity as our standard SpiderGrip gloves BUT with the added protection of high performance fibers.

**Available Styles**

Style	Description	Cut Level	Sizes
22-1508	SpiderGrip KV Kevlar® knit latex dipped glove	2	S-XL
96-5205	SpiderGrip HPPE polyurethane dipped glove	3	S-XL

**Features**

- Seamless Design
- Ergonomic Fit
- Long Wearing
- Super Cut and Puncture Protection

**Applications**

- Glass Handling
- Bottling
- Canning
- Sheet Metal
- Automotive
- Fabrication



22-1508



96-5205



# SpiderGrip **Comfort** Glove

Lightweight and Comfortable



## Lightweight Polyester Liners For Comfort and Functionality in those Light Duty Jobs!

Knitted with a lightweight polyester liner these styles provide the maximum in comfort and breathability for those light duty jobs.

### Available Styles

Style	Description	Sizes
7-2205	SpiderGrip black polyester Nitrile foam dipped glove	S-XL

### Features

- Seamless Liner
- Ergonomic Fit
- Superior Breathability (open back)
- Comfort! Comfort! Comfort!

### Applications

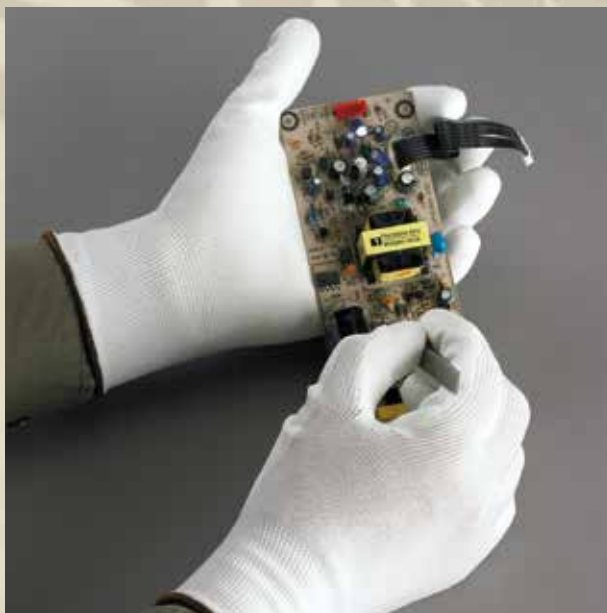
- Light Fabrication
- Material Handling
- Automotive
- Small Parts Assembly



7-2205

# SpiderGrip **Dexterous** Glove

Dexterous



## Polyurethane Coated Polyester Knit Liner Glove – When Dexterity Matters!

For the handling of those small parts nothing beats a Polyurethane coated polyester knit liner glove.

### Available Styles

Style	Description	Sizes
7-3101	SpiderGrip P/U white polyester polyurethane dipped glove	S-XL
7-3104	SpiderGrip P/U black polyester polyurethane dipped glove	S-XL

### Features

- Non-linting Polyester Seamless Liner
- Ergonomic Fit
- Superior tactile feel and touch
- Comfort PLUS

### Applications

- Intricate Parts Assembly
- Inspection
- Electronics
- Automotive
- Material Handling
- Light Fabrication



7-3101



7-3104

**NEW!**

# Lakeland Warm Weather Vented FR Work Clothing

- Stay cool while you work with Lakeland's new line of vented-back FR clothing.
- Let Lakeland increase your comfort on the job without sacrificing the FR protection you need.

## A. ISH7VB20 Khaki Vented-Back Shirt

- Tapered Aramid mesh vented back improves air circulation, keeping you cool while you work
- Sleeve straps keep rolled sleeves in place for comfort in warm work environments
- Long rounded tail helps you stay "tucked-in" all day long

**Material:**

7.0 oz. 88/12 Fyrban FR cotton (88% cotton/12% nylon)

ATPV = 8.9, HRC = 2

## B. IDDJ1413 Denim Jean Pant

- Innovative roomier "XCR" crotch design for maximum comfort and freedom of movement
- Non-metallic buttons and FR zipper front closure
- Lintrack® permanent creases for a sharp appearance

**Material:**

14.0 oz. 100% Fyrban FR cotton

HRC = 2

## C. C071V20 Vented-Back Coverall

- Tapered Aramid mesh vented back, improves air circulation, keeping you cool while you work
- Heavy duty non-metallic snaps make closure easy
- Heavy duty, non-metallic FR zipper with pull tabs for maximum FR protection
- Two swing pockets with internal safety pass-thrus for easy access to inner pants pockets
- Flared leg cuffs make donning and doffing over work boots a breeze

**Material:**

7.0 oz. 88/12 Fyrban FR cotton (88% cotton/12% nylon)

ATPV = 8.9, HRC = 2



All Lakeland FR Garments are sewn throughout with FR thread.

## Warranty and Warnings

### Warranty Information

It is the responsibility of the user to select garments 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>), **OR OTHER PERTINENT NATIONALLY RECOGNIZED STANDARDS, SUCH AS THOSE PROMULGATED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) ([www.nfpa.org](http://www.nfpa.org)),**

**THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) ([www.astm.org](http://www.astm.org)), THE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH) ([www.cdc.gov/niosh/rpg](http://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 A GLOVE, SLEEVE OR ACCESSORY ITEM (PRODUCTS), 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 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 products 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 protective products will burn except where our products are specifically advertised as fire resistant. These products 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 products is abraded, cut, torn, punctured or otherwise and in any way breached, do not use. The protective products material has finite resistance to abrasion, cut, tear and puncture. It is the responsibility of the wearer to inspect Lakeland products prior to use to insure the integrity of the products and components.

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

### Limitations of Use

Lakeland protective products are not intended for protection against radiological hazards.

### Chemical and Fire Data

Before using a protective products in a chemical situation, consult the chemical permeation data appropriate to the products 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 glove 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 glove 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 glove materials for testing and can provide you with a list of testing facilities.

Lakeland's Iglove lines 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 products 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 GLOVE LINES.**

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# All of Your Safety Apparel Needs Under One Roof.

Disposable  
Clothing



Chemical  
Clothing



Reflective  
Clothing



Hand & Arm  
Protection



Woven  
Clothing



Lakeland  
Fire



All of your safety apparel needs  
under one roof.

**1-800-645-9291.**



**In the USA**  
Toll Free: 800-645-9291  
Voice: 256-350-3873  
Fax: 256-350-0773  
Email: [info@lakeland.com](mailto:info@lakeland.com)

**In Canada**  
Toll Free: 800-489-9131  
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Fax: 519-757-0799  
Email: [sales-canada@lakeland.com](mailto:sales-canada@lakeland.com)

