



Industrial Heat Protective Clothing and Accessories Buyers Guide

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Fabric Materials

Lakeland offers heat protective garments in Aluminized Fiberglass. Aluminized Glass combines the reflectivity of an aluminized outer surface with glass fabric. Glass fabric neither burns or supports combustion, and offers a combination of properties from high strength to fire resistance. It is a stable material that will not stretch or shrink, even after exposure to extremely high or low temperatures. Aluminized Glass is also very durable, proving to be a cost effective material in the long run.

Caution! Do Not Confuse Ambient, Conductive and Radiant Heat!

The following definitions are given as reference in selecting the proper clothing for heat protection.

Ambient Heat is surrounding atmospheric temperature in a given situation. Examples are: 65°F-70°F (18°C-21°C) in an office; 2000°F (1092°C) in a fire walk.

Conductive Heat is generated by direct contact with a hot surface. Examples are: picking up a burning block at 600°F (315°C); leaning against a furnace wall at 1000°F (537°C).

Radiant Heat is generated by the sun or source of fire, such as a fireplace or furnace, and is absorbed by masses of material struck by the heat's rays. This is why it is cooler in the shade on a sunny, hot day.

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700/705 Series Proximity Suits



Left, the 700 Series Proximity Suit, featuring a coat and pants. Right the 705 Series Proximity Coverall.

Lakeland's 700 and 705 Series Proximity Suits are designed for performance of maintenance and repairs in high heat areas. Workers wearing these proximity garments are insulated from harm by Lakeland's unique, proven multi layer construction, with the outer layer composed of high temperature Aluminized Fiberglass. An additional moisture/steam barrier lining provides protection in areas where exposure to hot liquids, steam, or hot vapor is a possibility. Redesigned for better fit, the 700 and 705 Series Suits are available in coverall

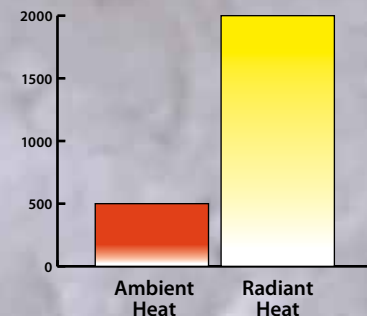
or coat and pant styles. The coverall or the coat and pant styles are available with an SCBA accommodation, if required. The 700 Series Suit comes complete with a hood, gold reflective faceshield, coat, pants, mitts and boots. The 705 Series Coverall comes complete with a hood with gold reflective faceshield, coverall, boots and mitts. Both series are offered in sizes Small, Medium, Large and Extra Large. Individual replacement components are available. Handy duffel/storage bags are also available.

The 700/705 Series Proximity Suits are not to be used for fire entry.

Applications

700 and 705 Series Proximity Suits are used by industries which bake on by finishes, such as auto, office furniture, and appliance manufacturers. The Proximity Suits may also be used in oven and conveyor repair.

Heat Tolerances



The graphs above are provided for relative comparison of radiant and ambient heat performance of Lakeland's Industrial Heat Protective Clothing. The temperatures indicated are extrapolated from laboratory tests and ARE NOT intended to indicate suitability for use at these temperatures. Individual physiology, work conditions, and the work being performed are too variable to make recommendations for use based only on temperature and exposure time.

Model Numbers

700/BA	Proximity Suit complete, SCBA accommodation.
700	Proximity Suit complete.
705/BA	Proximity Coverall complete, SCBA accommodation.
705	Proximity Coverall complete.

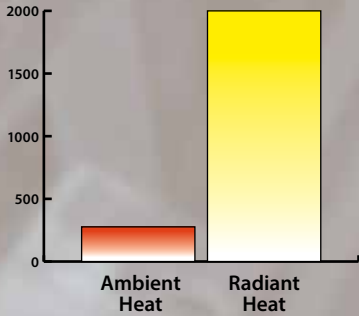
Suit Components

710-AGLG/BA	Proximity Hood
710-AGLG	Proximity Hood
722 AG/BA	Proximity Coverall
722 AG	Proximity Coverall
720/BA	Proximity Coat
720	Proximity Coat
730	Proximity Pants
755	Proximity Boots
740	Proximity Mitts

Applications

500 and 505 Series Approach Suits are used by power plants, cement manufacturers, foundries, ceramic, glass and plastic manufacturers, chemical processing. Suits protect employees exposed to extreme radiant heat for relatively prolonged period of time.

Heat Tolerances



The graphs above are provided for relative comparison of radiant and ambient heat performance of Lakeland's Industrial Heat Protective Clothing. The temperatures indicated are extrapolated from laboratory tests and ARE NOT intended to indicate suitability for use at these temperatures. Individual physiology, work conditions, and the work being performed are too variable to make recommendations for use based only on temperature and exposure time.

Model Numbers

500AG	Approach Suit complete.
505AG	Approach Coverall complete.

Suit Components

510-2AGLG	Approach Hood
510-1AGLG	Approach Hood
522 AG	Approach Coverall
520-32AG	Approach Coat
530AG	Approach Pants
555AG	Approach Boots
344-02N	Gauntlet Glove

500/505 Series Approach Suits



At left, the 500 Series Approach Suit, featuring a coat and pant. Right, the 505 Series Approach Coverall.

The 500 and 505 Series Approach Suits are designed for personnel engaged in maintenance, repair and operational tasks in areas of low ambient, high radiant heat. These superior protective approach suits are available in high temperature Aluminized Fiberglass. An additional moisture/steam barrier lining protects in areas where exposure to hot liquids, steam, or hot vapor is a possibility.

The 500 and 505 Series Suits are available in coverall or coat and pant styles. The 500 Series suit comes complete with a hood with gold reflective faceshield, coat, pants, gloves and boots. The 505 Series Coverall comes complete with a hood with gold reflective faceshield, coverall, gloves and boots.

Handy duffel/storage bags are also available. The 500 and 505 Series Approach Suits are available in sizes Small, Medium, Large, and Extra Large. Individual replacement components are available.

The 500/505 Series Approach Suits are not to be used for fire entry.

300/305 Series Approach Suits



Left, the 300 Series Approach Suit, featuring a coat and pants. Right the 305 Series Approach Coverall.

These heat reflective 300 and 305 Series Approach Suits are designed for personnel engaged in maintenance, repair and operational tasks in areas of low ambient, high radiant heat, much the same as our 500/505 Series. However, the 300 and 305 Series Approach Suits have no moisture/steam barrier, making these garments suitable for situations where exposure to hot liquids, steam or hot vapor is not a possibility.

Like the 500/505 Series, these protective approach suits are available in high temperature Aluminized Fiberglass. The 300 and 305

Series Suits are available in coverall or coat and pant styles. The 300 Series suit comes complete with a hood with gold reflective faceshield, coat, pants, gloves and boots. The 305 Series suit comes complete with a hood with gold reflective faceshield, coverall, gloves and boots.

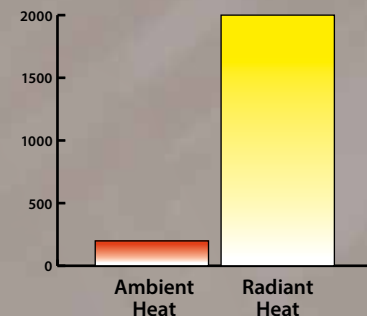
Handy duffel/storage bags are also available. The 300 and 305 Series Approach Suits are available in sizes Small, Medium, Large and Extra Large. Individual components are available.

The 300/305 Series Approach Suits are not to be used for fire entry.

Applications

300 and 305 Series Approach Suits are used by power plants, cement manufacturers, foundries, ceramic, glass, and plastic manufacturers, chemical processing. Suits protect employees exposed to extreme radiant heat for relatively prolonged periods of time.

Heat Tolerances



The graphs above are provided for relative comparison of radiant and ambient heat performance of Lakeland's Industrial Heat Protective Clothing. The temperatures indicated are extrapolated from laboratory tests and ARE NOT intended to indicate suitability for use at these temperatures. Individual physiology, work conditions, and the work being performed are too variable to make recommendations for use based only on temperature and exposure time.

Model Numbers

- 300AG Approach Suit complete.
- 305AG Approach Coverall complete.

Suit Components

- 310-2AGLG Approach Hood
- 310-1AGLG Approach Hood
- 322 AG Approach Coverall
- 320-32AG Approach Coat
- 330AG Approach Pants
- 355AG Approach Boots
- 344-02N Gauntlet Glove

Accessory and Replacement Gear



Lift Front Hood

This 300 series heat reflective hood is useful in areas of low ambient high radiant heat. With the lift up faceshield, this hood is perfect for many industrial applications. This style hood is available in high temperature Aluminized Fiberglass..

Model Numbers

311AGL – Aluminized Approach hood with movable 8" x 13" (20.32 cm x 33.02 cm) polycarbonate faceshield with neoprene-coated aramid felt liner, clear faceshield.

311AGLG – Aluminized Approach hood with movable 8" x 13" (20.32 cm x 33.02 cm) polycarbonate faceshield with neoprene-coated aramid felt liner, gold faceshield.



Approach Hood

Perfect as replacement items for our 500 and 300 series suits or coveralls, these hoods are designed for maintenance, repair and operational tasks in areas of low ambient, high radiant heat. Winglocks on faceshield make for quick and easy replacement.

Model Numbers

310-1AGL – Approach hood with hardcap, 6" x 10" (15.24 x 30.48 cm) clear faceshield, wing lock.

310-1AG LG – Approach hood with hardcap, 6" x 10" (15.24 x 30.48 cm) gold faceshield, wing lock.

Faceshield available bolted to frame instead of winglocks; to order bolted style, add T to end of model number.



Heat Protective Hood

Many fire fighters use this style hood as an additional heat protective barrier to their standard turnout gear. Permanently flame retardant, it stretches to fit all sizes under a hard hat or fire helmet. It can be used with any style of SCBA.

Model Numbers

119-NM – Lightweight Nomex® heat protective hood.



Approach Coats

Non-insulated approach coats are offered in both the 300 and 500 Series styles. The 500 series has the added benefit of a moisture/steam barrier lining. These coats are ideal as replacements for lost or worn suits, or as the primary protector in situations where only a coat is required. Both the 300 and 500 series are available in high temperature Aluminumized Fiberglass.

Replacements coats for 300 and 500 Series suits are offered in 32" (76 cm) lengths. Additional coats are available in 36", 40", 46" and 50" (81 cm, 102 cm, 127 cm) lengths. Coats are offered in sizes Small, Medium, Large, and Extra Large.

Model Numbers

320AG – Aluminumized Approach coat

320-50 AG Approach Coat.



330AG Approach Pants.



522AG Approach Coveralls

Approach Pants and Coveralls

Fyrepel non-insulated approach pants and overalls are available in either the 500 or 300 series. The 500 series added moisture/steam barrier provides protection from environments where exposure to hot liquids, steam or hot vapor is a possibility. The pants are offered in either a big or waist style, and are a compliment to the approach coats. Both the 300 and 500 series are available in high temperature Aluminumized Fiberglass. Pants are offered in sizes Small, Medium, Large, and Extra Large.

Model Numbers

330AG – Aluminumized Approach pants.

522AG – Aluminumized Approach Coveralls.



A. 300 Series Approach Boots

The 300 series approach boots are non-insulated and are useful for maintenance and operational tasks in areas of low ambient, high radiant heat. The 355AG boots offer a texturized anti-skid neoprene sole with a substrate of high temperature glass.

Model Numbers

355AG – Aluminized Approach boot.



B. 755 Insulated Proximity Boot

The 755 Insulated Proximity Boot is useful in areas of high heat, and features an added moisture/steam barrier.

Model Numbers

755 – Insulated Proximity Boot.

C. 300 Series Sleeves

Indispensable where workers may make accidental contact with hot metal, glass, or high heat surfaces. Sleeves are offered in non-insulated approach styles, in 12", 18" and 24" (30 cm, 46 cm, 61 cm) lengths.

Model Numbers

336-18AG – Aluminized Sleeves.

D. 300 Series Approach Apron

These versatile approach aprons offer superior protection against radiant heat. Non-insulated aprons are available in surgeon styles and in various lengths. The non-insulated styles are offered in aluminized glass.

Model Numbers

325-48AG – Approach Apron.



700 Series Proximity Mitt

Model Numbers

740 – Insulated Proximity Mitt.



300 Series Approach Mitt

Model Numbers

344-08 – Approach Gauntlet, leather palms.

344-02N – Approach Gauntlet, leather palms.



Storage Bag

Fyrepel offers these rugged duffel bags for storing and carrying our heat protective garments. Constructed of Red Cordura material, these bags are large enough to stow gear, yet easy to carry. Features heavy duty handles and a self-healing zipper.

Model Numbers

PGKC15 – Storage Bag.



WARNING!

Improper use of these suits may result in personal injury or death. Improper use includes, but is not limited to improper selection, use without adequate training, disregard of the warnings and instructions supplied with the suits and failure to inspect and maintain the suits.

This catalog contains general descriptions of certain Lakeland® products. While some uses and performance capabilities are described, under no circumstances should the product be used except by qualified personnel, and not until the instructions, labels or other literature that may accompany the products have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning these products.

There are many factors that must be taken into consideration when determining the appropriate level of protection. Consequently, selection of protective clothing must be done by an industrial hygienist or other NFPA or OSHA trained and qualified individual.

Lakeland® believes the information herein is the best currently available. It is subject to revision as additional knowledge and experience are gained. Lakeland® makes no guarantees of results and assumes no obligation or liability in connection with this information.

There are uses and environments for which this garment is unsuitable. It is the user's sole responsibility to determine that this garment is appropriate for the intended use and complies with all health and safety laws and regulations.

Accordingly, the manufacturer makes no guarantees, representations, or warranties in respect of these products, including, but not limited to, warranties of merchantability, and or warranties of fitness for any purpose. The manufacturer shall not be liable for any loss, injury or death or any direct or indirect damages arising out of the use of this product.



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