

# INSULFLEX<sup>®</sup>

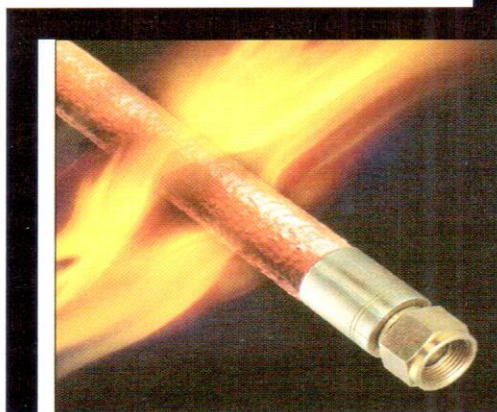
Solving high temperature problems worldwide

## Insulflex

At ADL Insulflex, Inc, we are constantly looking for new product opportunities. This leads to a process of continuous improvement and new product development to meet the most complex high temperature requirements. With our strong commitment to research and development, we focus on solving the high temperature problems of our customers around the world. We constantly ask:

"How can we solve your high temperature problem?"

Our extensive engineering background and complete in-house fabrication facilities allow us to custom design and produce prototypes for field testing, often within 1-3 days from your original enquiry. From problem to prototype, to solution, we deliver.



Problem



Idea



Prototype



Solution

## PYROJACKET<sup>™</sup>

Constructed from a high bulk fiberglass sleeve heavily coated with iron oxide red silicone rubber, Pyrojacket sheds molten metal splash and withstands intense heat and flame, making it ideal for protecting hoses, cable and tubing in a variety of hostile environments. Withstands continuous exposure to 500°F (260°C), up to 2000°F (1090°C) for 15-20 minutes, and up to 3000°F (1650°C) for 15-30 seconds.

Available in sizes up to 5" (127 mm) diameter, Pyrojacket has an excellent modulus of elasticity and can be used to bundle hoses and cables.

Pyrojacket's insulation properties allow it to provide effective burn protection for personnel from hot hoses and piping, while reducing costly heat energy losses. Available in both Industrial and Aersotyle grades.

Also available in other colours by special order.

## PYROJACKET<sup>™</sup> VCO

Pyrojacket VCO option is the solution to shutting down equipment and disconnecting hoses and cables to install heat protective sleeving.

The VCO option is factory installed, to ensure correct fit and structural integrity. Using high temperature fiberglass thread, a flame retardant hook and loop closure is sewn internally. Pyrojacket VCO is adjusted for size, to allow for the overlap where hook and loop closures meet.

Pyrojacket VCO is available in sizes from 3/4" (19mm) to 4 1/2" (115 mm) diameter.







## PYROTAPE

Pyrotape offers similar protection benefits to Pyrojacket. Constructed from a knitted fiberglass tape and coated with a thick covering of iron oxide red silicone rubber, Pyrotape can wrap around any diameter hose or cable.

Pyrotape is non-adhesive, and normally installed in a spiral wrap with a 30-50% overlap.

Like the Pyrojacket VCO option, Pyrotape can be installed without disconnecting hoses or cables. Pyrotape is available in widths from 1" to 5" (25 mm to 125 mm).

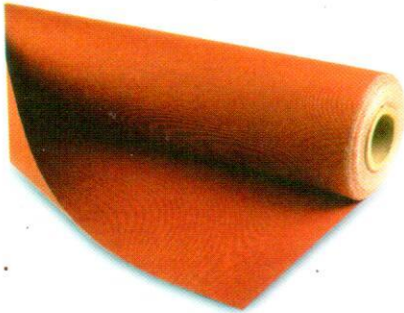


## PYROSIL TAPE

A non-adhesive, iron oxide red silicone rubber tape, Pyrosil, tape is designed to provide a self-bonding, self-curing, liquid-tight insulation barrier. Ideally used as an end-sealant in conjunction with Pyrojacket, Pyrosil tape prevents hydraulic oils and contaminants from wicking into the inner braid.

By virtue of its dielectric strength, Pyrosil tape is an excellent alternative to heat shrinkable tubing, vinyl tapes and wraps. Typical applications include: wrapping wiring harnesses protecting splices and terminations of power cables, and insulating coils on motors and generators.

Pyrosil Tape will withstand continuous exposure to 475°F (246°C). It is available in 1" (25 mm) wide, 1-1/2" (37 mm), and a 1" (25 mm) wide fiberglass reinforced version for extra strength.

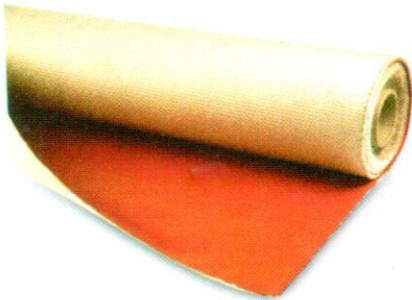


## PYROBLANKET™ 32oz

Pyroblanket is a high temperature resistant fabric designed to shed weld spatter and resist radiant heat and flame. It is constructed from a fiberglass base cloth and coated both sides with a specially compounded iron oxide red silicone rubber.

Weighing 32 oz/yd<sup>2</sup> (1085 grams/m<sup>2</sup>), 32 oz Pyroblanket has sufficient thickness and body weight to serve as a heavy-duty welding blanket or even perform light duty foundry splash protection.

32 oz Pyroblanket is available in 36" (915 mm) and 60" (1525 mm) widths. It can be sewn and custom fabricated into almost any shape, or supplied with factory installed grommets to your specifications.



## PYROBLANKET™ 96oz

96 oz Pyroblanket is an extreme heavy-duty version of 32 oz Pyroblanket. Utilizing a very thick fiberglass cloth, all the silicone rubber is applied to one side only, creating an ultra smooth coating on the heavy textured blanket. Designed to shed molten steel like "water off a duck's back", 96 oz Pyroblanket is unique in both form and function.

96 oz Pyroblanket is designed for the most extreme molten splash environments, such as Electric Arc Furnaces, Blast Furnaces and Casting areas.

Weighing 96 oz/yd<sup>2</sup> (3260 grams/m<sup>2</sup>), 96 oz Pyroblanket is 40" (1016 mm) wide. It can be supplied as a large diameter sleeve or fabricated into almost any shape. Available with factory installed grommets to your specifications.



## EAF CABLE - COVER™

Fabricated from 96 oz Pyroblanket, EAF Cable Cover is designed specially to protect water cooled power cables on Electric Arc Furnaces.

Using 96 oz Pyroblanket, a custom fitted sleeve is fabricated with a NomexR hook and loop closure. EAF Cable-Cover can be installed without disconnecting the water cooled cables.

EAF Cable-Cover can withstand the heat, abrasion, bumping, flame and molten metal splash normally encountered in both AC and DC EAF furnace operations. Even splashes encountered during wet charges are repelled, allowing for continued operation of the EAF without unexpected cables failures.

EAF Cable-Cover is non-conductive and will not affect the magnetic induction of the furnace. Available in a full range of sizes up to 12" (305 mm) diameter.





## REMOVABLE INSULATION BLANKET

Fabricated from 32 oz Pyroblanket and fiberglass/silica/ceramic internal insulation, Insulflex Removable Insulation Blankets are made to the most exacting standards.

Ideal for marine, industrial, off-highway and power generation use, Insulflex Removable Insulation Blankets are custom made to meet the conditions of the most demanding applications.

Custom in-house fabrication facilities allow Insulflex Removable Insulation Blankets to be supplied in large or small quantities, with a variety of closure systems, and in any size.



## SILICAFLEX™ BLANKET

Silicaflex woven textile blankets are an excellent alternative to asbestos. Constructed with a 90% pure silica fiber, Silicaflex blankets are stronger and more abrasion resistant than the competition.

Suitable for continuous use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C), Silicaflex blankets set the standard for flexibility and minimum line shrinkage under heat conditions.

Available in thicknesses of .030" (0.76 mm) and .050" (1.27 mm). Standard width is 36" (914 mm).

Silicaflex blankets can be custom fabricated into almost any shape or supplied with factory installed grommets to your specifications.



## SILICAFLEX™ SLEEVE

Constructed from an Amorphous Silica (SiO<sub>2</sub>) fiber Yarn, Silicaflex sleeve has the same high temperature resistance capabilities as Silicaflex blanket.

Silicaflex fibers are resistant to most industrial chemicals except hydrofluoric acid, phosphoric acid and strong alkalis. Silicaflex sleeve is completely flameproof and its high silica purity content of over 96% allows it to protect hoses and cables in the hottest environments.

All Silicaflex fibers retain their strength and flexibility through repeated exposures to high temperatures, and have a dielectric strength of 40V/mil making Silicaflex products ideal for insulating electrical leads and instrumentation wires.

Silicaflex sleeves range in size from 3/8" (10mm) to 7" (178mm) diameter.



## SILICAFLEX™ TAPE AB

Silicaflex Tape AB features all the characteristics of Silicaflex blanket and sleeve, but is supplied in a tape form for the convenient wrapping of hoses, cables and pipe.

Coated on one side with a pressure sensitive adhesive backing that facilitates ease of installation, Silicaflex Tape AB is a convenient, field installable solution to high temperature problems. The pressure sensitive adhesive decomposes at high temperatures, leaving perfectly installed, tape wrapped hose, cable or pipe.

Like all Silicaflex products, Silicaflex Tape AB will withstand 1800°F (982°C) continuous and short term exposure up to 3000°F (1650°C).

Silicaflex Tape AB is supplied in widths 2" (50 mm) and 4" (102 mm).



## PYROSEALANT™

A heat resistant iron oxide red sealant and gasketing material that cures at room temperature into a tough rubbery solid. It is composed of Amorphous Silica, Polydimethylsiloxane, Iron Oxide and a specially developed curing catalyst to facilitate a moisture sensitive cure at room temperature within approximately 18 hours. Pyro Sealant dries to a tack-free state in 10-15 minutes.

Due to its high silica content, Pyro Sealant outperforms other high temperature sealants. It has a continuous temperature rating of 550°F (287°C) and intermittent exposure to 1000°F (538°C) making it ideal for use as a seal or gasket in the most demanding high temperature environments.

Pyro Sealant is supplied in 10.9 oz (310ml) caulking cartridges.





## THERMOLEEVE™ B

A heavy wall braided fiberglass sleeve capable of operating at a continuous temperature of 1000°F (538°C). Thermosleeve B's excellent insulation capabilities and low cost make it a good choice economical hose and cable protection where molten splash is not a factor.

The texturized, untreated construction allows for Thermosleeve to exhibit excellent resistance to thermal conductivity, making it a good choice for use by itself or under other sleeve products like Pyrojacket, Pyreflect or Silicaflex in applications where additional thermal insulation is required.

Available in sizes from 1/2" (13mm) up to 4" (102mm) diameter.



## THERMOLEEVE™ S

An expandable braided fiberglass sleeve that will cover a wide range of sizes. Thermosleeve S is heat cleaned and coated with an acrylic saturant to further reduce loose fibers, enhance handline characteristics and improve abrasion resistance.

Thermosleeve S will expand and contract by approximately 25% of its nominal size, and will operate continuously at 1000°F (538°C). The acrylic saturant begins to decompose at approximately 400°F (204°C), but does not effect the performance of the sleeve.

Due to its wide range of expansion and contraction, Thermosleeve S is offered in just 4 sizes, which cover a complete range of sizes from 3/8" (10 mm) up to 3-1/2" (89 mm) diameter.



## PYREFLECT™ BLANKET

Pyreflect blanket is constructed from 2 layers of aluminium coating and a protective film, all laminated to a heavy grade aramid fiber blanket with a heat stable adhesive. The aluminium layers will not delaminate from the aramid fiber blanket, even under the most extreme heat conditions.

Tested at 30000F (16500C) for 1 minute, Pyreflect blanket will reflect at least 90% of the radiant heat energy. Pyreflect blanket is the ideal choice where occasional infrared (radiant) heat flow must be blocked or stopped. Pyreflect's mirror-like surface finish reflects heat away from the fabric, instead of absorbing the heat and transferring it through the fabric.

Pyreflect blanket is sold in rolls 40" (1016 mm) wide, or can be custom fabricated into almost any shape any shape complete with closures. It can also be supplied with factory installed grommets to your specifications.



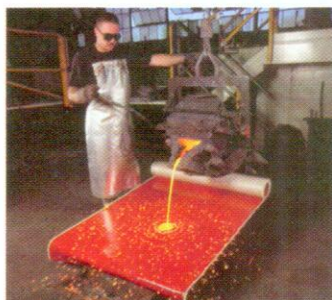
## PYREFLECT™ SLEEVE

Pyreflect sleeve is fabricated from Pyreflect blanket, and constructed by folding the blanket over, and sewing along the edge. The edge seams are sern using high temperature fiberglass thread, and are double-stitched for extra strength.

It is the ideal choice for protecting critical hoses, cables or alarm circuitry from occasional flame or radiant heat.

Pyreflect sleeve can be supplied in any diameter from 3/8" (10 mm) up to 12" (305 mm). It can be supplied with VCO option where a high temperature hook and loop closure system is sewn inside the sleeve to allow it be installed without disconnecting hoses or cables.

## LIABILITY STATEMENT



The information and illustration shown herein are believed to be reliable. ADL Insulflex, Inc. makes no warranties as to their completeness and disclaims any liability in connection with their use.

ADL Insulflex, Inc.'s only obligations are those in the standard terms of sale for these products. ADL Insulflex will not be liable for any consequential or other damages arising from use or misuse of these products.



**ADL Insulflex, Inc.**  
Canada

www.adlinsulflex.com  
Email : insulflex@gmail.com



**Authorised Distributor**

**POWERFLEX INDUSTRIES**

PHONE : (022) 67047722 / 65702629 / 2685 0724

FAX : (022) 6704 7720 Web : www.powerflexind.com

E-mail : customercare@powerflexind.com / powerflex@vsnl.com