INSULFLEX®

Solving high temperature problems worldwide

2018

Profile

Our Company and Our Commitment

"Markets change. Technology evolves. One thing that remains unchanged is our desire to exceed your expectations for value and service on every business transaction.

Through smart, innovative solutions – ADL Insulflex, Inc. will continue to be the resolution to your high temperature needs."

Nichola Walt, President

"Ongoing investment in infrastructure enables us to develop the most innovative solutions in the industry. Leading-edge technology, coupled with customer driven focus on service and quality, is rewarding our clients, shareholders and employees now – and into the future."

Steve Allan, CET, Mech Eng.
Vice President & General Manager

ADL Insulflex, Inc. is a member of the ADL Group, which began experimenting in 1962 with non-asbestos materials to protect hoses from flame and molten metal splash.

We are a growing corporation that is absolutely dedicated to servicing the needs of our customers. Our commitment to worldwide customer service is illustrated by our global Quickship Program, which allows us to deliver to almost any industrialized area on earth, within 96 hours - economically.

ADL Insulflex, Inc. maintains its corporate headquarters, Research and Development facilities, fabrication center and principal distribution warehouse in Cobourg, Ontario, Canada. Our close proximity to Toronto allows us to take advantage of worldwide overnight couriers, air and sea-freight terminals, and a large pool of talented professionals.

Our primary US shipping points are located in Watertown, NY, USA, and Houston, TX. From here, we offer our US customers immediate service and delivery from our stocking warehouse facilities.

Through extensive Research and Development, we continue to solve the high temperature problems that face our customers around the world. Our dedication to customer service will exceed your expectations, and we will continue earning your business each and every day.

INSULFLEX®
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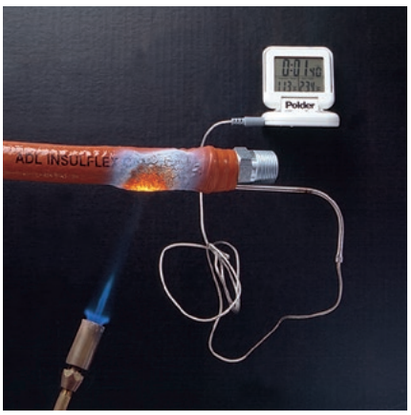
At ADL Insulflex, Inc, we are constantly looking for new product opportunities. This leads to a process of continuous improvement and new product development to meet the most complex high temperature requirements. With our strong commitment to research and development, we focus on solving the high temperature 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**



Aerostyle Pyrojacket®

Thicker, denser inner glass fiber than our Industrial grade Pyrojacket® gives higher insulation values, increased strength and enhanced abrasion resistance.

Sheds splash immediately
Aerostyle Pyrojacket® withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs.

Withstands intense radiant heat and flame
Aerostyle Pyrojacket® will withstand 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. All temperature ratings are DMT Certified.

When exposed to flames, the silicone rubber transforms into a crust, creating a protective SiO2 refractory layer.

Aerostyle Pyrojacket® is constructed from high bulk glass fiber braided sleeve. Excellent modulus of elasticity makes it an ideal choice for bundling hoses, tubes and cables in a variety of hostile environments.

Aerostyle Pyrojacket® - Quick Facts

Custom colours available by special order.
Sizes up to 6" (152 mm) diameter.

Continuous operating temp:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

MSHA APPROVED IC-258/01

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SAE® AS1072E

DNV·GL

Industrial Grade Pyrojacket® Quick Facts

Custom colours available by special order.
Diameters up to 5" (127 mm) diameter.

Continuous operating temp:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Flame resistance:	Very good
Abrasion resistance:	Good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

Industrial Grade Pyrojacket®

Knitted high bulk glass fiber sleeve can withstand repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C).

Sheds splash immediately
Industrial grade Pyrojacket® withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs.

Withstands intense radiant heat and flame
Industrial grade Pyrojacket® will withstand 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. When exposed to flame, the silicone rubber transforms into a crust, creating a protective SiO2 refractory layer. All temperature ratings are DMT Certified.

Industrial grade Pyrojacket® is constructed from high bulk glass fiber knitted sleeve. Excellent modulus of elasticity makes it an excellent choice for bundling hoses, tubes and cables in a variety of hostile environments.

Protect your personnel and cut your energy loss
Industrial Pyrojacket's insulation properties provide personnel with effective protection against burns from hot hoses and flexible steamlines, while reducing heat energy losses.

Pyrojacket® VCO

Knitted or braided high bulk glass fiber sleeve with VCO hook-and-loop closure. Ideal choice for easy retrofits.

Install without disconnecting hoses or cables - Constructed from a high bulk glass fiber braided or knitted sleeve, heavily coated with our proprietary compound of iron oxide red silicone rubber. Using high temperature glass fiber thread, a flame retardant hook-and-loop closure system is sewn internally.

Sheds splash immediately - Pyrojacket® VCO withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs. When exposed to flames, the silicone rubber transforms into a crust, creating a protective SiO2 refractory layer.

Withstands intense radiant heat and flame - Pyrojacket® VCO will withstand 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.

Excellent modulus of elasticity makes this Insulflex® product an optimal choice for bundling hoses, tubes and cables in a variety of hostile environments.

Protect your personnel and cut your energy loss - Pyrojacket VCO's insulation properties provide personnel with effective protection against burns from hot hoses and flexible steam lines, while reducing heat energy losses.

Pyrojacket® VCO - Quick Facts

Custom colours available by special order.
Diameters from 1" (25 mm) to 5 1/2" (140mm)

Continuous operating temp:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility:	Good
Water and oil resistance:	Good

EAF Cable Cover - Quick Facts

Continuous operating temp:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Weld spatter resistance:	Outstanding
Flame resistance:	Outstanding
Abrasion resistance:	Outstanding
Flexibility:	Very good
Water and oil resistance:	Very good

EAF Cable Cover

Specifically designed to protect water cooled power cables on Electric Arc Furnaces.

Guard against cable failures
Insulflex EAF Cable Covers can withstand the heat, abrasion, impacts, flame and molten metal splash normally encountered in AC and DC EAF operations. Even splashes encountered during wet charges are repelled, allowing for continued operation of the EAF without unexpected cable failures.

Simple hook-and-loop installation
Using our 96 oz Pyroblanket™ as a base fabric, a custom fitted sleeve is fabricated with a Nomex® high-temperature resistant hook and loop closure system to enable installation without disconnecting the water cooled cables.

Custom fabricated to your requirements
Insulflex EAF Cable Covers are custom fabricated in the diameter and length that fit your specific cable protection needs. It can also be supplied with sectional inserts in critical areas to offer extra heat and/or molten splash protection.

Excellent heat and splash resistance
The ultra thick coating of specially compounded silicone rubber sheds molten splash almost instantaneously, before any heat transfer can occur. When exposed to high temperatures or molten splash for extended periods, the silicone rubber transforms into a silica refractory crust.

Pyrotape®

Non-adhesive high bulk glass fiber tape withstands intense heat and flame and sheds molten splash immediately.

Outstanding molten splash protection
Pyrotape® is a knitted high bulk glass fiber tape, heavily coated with our proprietary compound of iron oxide red silicone rubber. The specially designed compound sheds molten metal splash immediately, so very little heat transfer occurs.

Pyrotape® can withstand repeated exposures to molten steel, molten aluminum and molten glass, up to 3000°F (1650°C).

High temperature protection for hoses and cables
Pyrotape® 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.

When exposed to flame, the silicone rubber transforms into a crust, creating a protective SiO2 refractory layer.

Non-adhesive installation without line disconnection
Pyrotape® has an excellent modulus of elasticity and can wrap any diameter hose or cable - typically in a spiral wrap with a 50% overlap. Can be installed without disconnecting hoses or cables.

Pyrotape® - Quick Facts

Available in custom colours by special order.
Available in sizes up to 5” (127 mm) wide.

Continuous operation:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

Pyrosil™ - Quick Facts

	PST-16	PST-24	PSTR-16
Width:	1”	1-1/2”	1”
Thickness:	.020”	.060”	.020”
Profile:	Triangular	Triangular	Rectangular
Reinforcement:	None	None	Glass fiber
Dielectric strength: MIL-46852	400 volts/mil	250 volts/mil	450 volts/mil
Max temp:	475°F/246°C	475°F/246°C	500°F/260°C
Elongation:	300%	300%	25%
Tensile strength:	Moderate	Good	Outstanding

Pyrosil™ Tape

Silicone rubber high temperature tape forms a non-adhesive, self-bonding, self-curing, liquid-tight insulation barrier

High Temperature Insulation Tape
Pyrosil™ is a non-adhesive, iron oxide red silicone rubber tape, designed to withstand continuous exposure to temperatures up to 475°F (246°C).

Broad application range
By virtue of its high dielectric strength, Pyrosil™ heat resistant 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; insulating coils on motors and generators.

Pyrosil™ is also ideal for use as an end sealant in conjunction with Pyrojacket® to prevent hydraulic oils and contaminants wicking into the inner braid.

Reinforced extra-strength Pyrosil™ Tape also available
Reinforced with sinusoidal-shaped glass fiber to provide higher tensile strength and resistance to notch sensitivity. Width 1” (25 mm).

Pyroblanket™ 96 oz

Ultra-heavy grade high temperature resistant fabric, designed for use in severe molten splash applications in the primary metals industry.

Tough, durable and very versatile
Our heavyweight - Pyroblanket™ 96 oz (3260 g) /m2) is constructed from a glass fiber base fabric, coated one side only with a very thick layer of specially compounded silicone rubber that sheds molten splash almost instantly, before heat transfer can occur.

It is used primarily for fabrication of specialized covers and curtains in applications such as electric arc furnace (EAF), blast furnace and casting, where severe molten splash occurs. It can be cut and sewn into custom shapes and formats, or used with other Insulflex high temperature fabrics to create unique protection products for the most severe industrial applications.

Withstands contaminants, high heat and flame
The silicone rubber coating is completely impervious to water, moisture and hydraulic oils. When exposed to high temperatures or molten splash for extended periods, the coating transforms into a silica refractory crust.

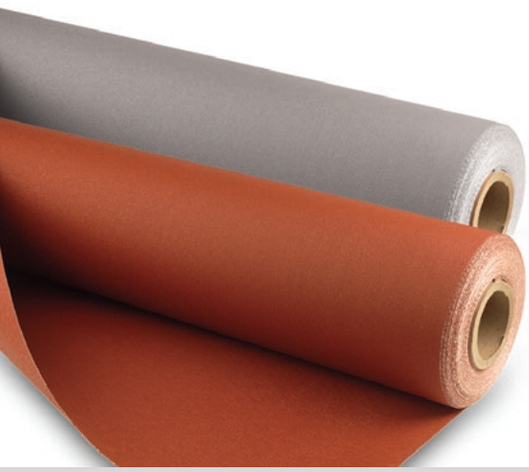
Pyroblanket™ 96 oz- Quick Facts

Continuous operating temp:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Outstanding
Weld spatter resistance:	Outstanding
Flame resistance:	Outstanding
Abrasion resistance:	Outstanding
Flexibility:	Very good
Water and oil resistance:	Very good
Colours:	Iron oxide red

E-84 + 162 CERTIFIED

Pyroblanket™ 32 oz & 17 oz - Quick Facts

	32 oz	17 oz
Continuous operating temp:	500°F (260°C)	500°F (260°C)
Max short term exposure:	2160°F (1182°C)	2160°F (1182°C)
Molten splash resistance:	Very Good	Good
Weld spatter resistance:	Outstanding	Outstanding
Flame resistance:	Very good	Very good
Abrasion resistance:	Very good	Very good
Flexibility:	Outstanding	Outstanding
Water and oil resistance:	Outstanding	Outstanding
Standard colour	Red	Silver-gray



E-84 + 162 CERTIFIED

Pyroblanket™ 32 oz & 17 oz

Heat, flame and weld spatter protection, designed to exceed industrial standards where resistance to moisture, sunlight, corona and hydraulic oils is needed.

Our midweight Pyroblanket™
A midweight (32oz/yd2; 1085g/m2) and lightweight (17 oz/yd2; 578 g/m2) high temperature resistant fabric, constructed from a glass fiber base fabric, impregnated both sides with a specially compounded silicone rubber coating designed to shed heavy weld spatter and resist heat and occasional flame.

Impervious to contaminants
Pyroblanket™ 32 oz and 17 oz are completely impervious to water, moisture and hydraulic oils. It is used primarily for fabrication of premium grade valve insulation covers, hanging flame-protection blankets in outdoor and offshore use, protective molten splash applications and fabric expansion joints.

Removable Insulation Covers

If wear and exposure are part of the problem, we can custom design removable insulation covers to handle the harshest conditions.

Heat insulation alone may not be your solution.
Requirements for thermal performance are often accompanied by the need to solve issues of abrasion, oil, moisture, vibration and flexibility.

Our solutions combine the physical and thermal properties of 17 oz or 32 oz Pyroblanket™ and fiberglass/silica/ceramic internal insulation to create custom removable insulation covers for the most hazardous and severe environments.

Typical applications include:
Custom made covers for exhaust manifolds and turbos on heavy diesel engines.

Custom made furnace covers to protect people and equipment from heat and molten metal splash.

Welding spatter and grinding swarf protection covers, on mobile equipment, rail grinders and construction applications.

Custom in-house fabrication facilities
Removable insulation covers can be supplied in large or small quantities, in almost any size, with various closure systems.

Custom Fabricated Products

If your problem doesn't have an off-the-shelf solution, "custom" is customary.

Custom fabricated/accessorized hanging curtains
All Insulflex® fire blanket and heat resistant cloth products can be fabricated into protective hanging curtains, with various accessories including glass fiber, ceramic or stainless steel thread… non-magnetic grommets… abrasion edge trim. Different materials can be combined to achieve maximum splash and flame resistance.

We custom design and fabricate protective curtains to meet virtually any need. Applications range from molten splash resistance around foundries and electric arc furnaces to large volume OEM parts on locomotive engines and heavy equipment.

EAF Cable Cover
Specifically designed to protect water cooled power cables on electric arc furnaces. Custom fabricated in the diameter and length that fit your specific cable protection needs. Can also be supplied with sectional inserts in critical areas to offer extra heat and/or molten splash protection.

Private Branding
We can brand some of our most popular products, such as Pyrojacket® and Flexgard™, with your company name and logo. Contact us for more information.

Cool Blue™ Sleeve

Extra thick, braided high bulk glass fiber. Specially designed to protect your personnel from hot hoses and piping, and cut your heat energy losses.

Best possible insulation properties
Cool Blue™ high temperature sleeve is designed to provide your personnel with effective burn protection from flexible steam lines and hot hoses.

Beneath the heavy coating of our proprietary compound of cool blue silicone rubber, the braided interior layer of Cool Blue™ is twice as thick as (and denser than) our heaviest grade of Aerostyle Pyrojacket®.

Heat transfer through the sleeve is gently dissipated, so that Cool Blue™ remains friendly to human touch at elevated temperatures. Note: The exterior coating will not adhere to human skin.

Excellent modulus of elasticity
Cool Blue™ can be used to bundle groups of hot hoses or tubes.

Performance rating
Depending on your operating conditions, Cool Blue™ can reduce the outer temperature of a steam hose typically operating at 380°F (194°C) to approximately 130°F (54°C). Cool Blue™ can typically be installed on hose assemblies operating up to 600°F (316°C).

Cool Blue™ Sleeve - Quick Facts

Sizes up to 4” (102 mm) diameter	
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

PyroRope™ - Quick Facts

Continuous exposure:	500°F (260°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Excellent
Flame resistance:	Excellent
Abrasion resistance:	Very Good
Flexibility:	Excellent
Water and oil resistance:	Excellent

PyroRope™

An ideal high temperature gasket where extra abrasion resistance and/or the ability to withstand oil, moisture, molten splash or flame is required.

Silicone rubber coated E-glass rope
PyroRope™ is an braided or knitted E-glass rope with a thick coating of iron oxide red silicone rubber. Rated for 500°F (260°C) continuous exposure and 3000°F (1650°C) intermittent, PyroRope™ makes an ideal gasket where you require thermal performance plus resistance to wear and exposures.

A variety of knitted or braided ropes can be used as the E-glass substrate to vary the compression density.

Diameters from 1/4” (6 mm) to 3” (76 mm).

Silicaflex™ Blanket
18, 32 and 36 oz

Available in standard sizes... or custom fabricated into almost any shape... or supplied in curtain format with factory- installed grommets to your specifications.

Dependable severe heat performance
Suitable for use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C), Silicaflex™ woven silica textile blanket is constructed from a 96% pure SiO2 silica fiber - a health-conscious alternative to asbestos and ceramic textiles.

Unmatched abrasion resistance and tensile strength
Silicaflex™ blankets set the standard for flexibility and minimum lineal shrinkage under high heat conditions. Durability is further enhanced with a proprietary hydrocarbon coating, giving Silicaflex™ blankets unmatched abrasion resistance and tensile strength.

Standard rolls or custom lengths. Two thicknesses.
Available in 18 oz (610 g/m^2), 32 oz (1100 g/m^2), 36 oz (1220 g/m^2), Standard width 36" (915 mm) or 60" (1525 mm). Sold in 150 ft (45 m) rolls, or supplied in custom lengths.

Silicaflex™ Blanket - Quick Facts

Continuous operating temp:	1800°F (982°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Good
Weld spatter resistance:	Excellent
Flame resistance:	Outstanding
Abrasion resistance:	Moderate
Flexibility:	Outstanding
Water and oil resistance:	Moderate

NFPA® 701 CERTIFIED

Silicaflex™ Blanket AB - Quick Facts

Continuous operating temp:	1800°F (982°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Good
Weld spatter resistance	Excellent
Flame resistance:	Outstanding
Abrasion resistance:	Moderate
Flexibility:	Outstanding
Water and oil resistance	Moderate

Silicaflex™ Blanket AB

Same high performance as our Silicaflex™ blanket - but with a pressure-sensitive adhesive coating on one side.

Dependable severe heat performance
Suitable for continuous use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C), Silicaflex™ AB woven silica textile blanket is constructed from a 96% pure SiO2 silica fiber, coated one side with pressure-sensitive adhesive. Silicaflex™ AB blankets can be cut on site to almost any shape.

Unmatched abrasion resistance and tensile strength
Silicaflex™ blankets set the standard for flexibility and minimum lineal shrinkage under high heat conditions. Durability is further enhanced with a proprietary hydrocarbon coating, giving Silicaflex™ blankets unmatched abrasion resistance and tensile strength.

Standard rolls or custom lengths. Three thicknesses.
Available in thickness of .030" (.76 mm) and .050" (1.27 mm). Standard 36" (915 mm) width. Sold in 150 ft (45 m) rolls, or supplied in custom lengths.

Aluminized Silicaflex™

High Performance Silicaflex™ blanket with a high heat reflective aluminized coating.

Dependable Severe Heat Performance
Suitable for use at 1800°F (982°C) and able to withstand short term exposure to 3000°F (1650°C), Aluminized Silicaflex features the additional benefits of a heat-stable aluminized coating. Ideal for reflecting intense radiant heat, the aluminized heat-stable coating also provides additional tensile and tear strength, abrasion resistance and the ability to repel water and hydraulic oils.

Standard Rolls or Custom Lengths
Available in a standard thickness of .058" (1.45 mm) in roll widths of 36" (915 mm). Supplied in full rolls 150 ft (45 m) or custom lengths.

Aluminized Silicaflex™ - Quick Facts

Continuous operating temp:	1800°F (982°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Good
Weld spatter resistance:	Excellent
Flame resistance:	Outstanding
Abrasion resistance:	Good
Flexibility:	Outstanding
Water and oil resistance:	Excellent

Silicaflex™ Tape AB - Quick Facts

Continuous operating temp:	1800°F (982°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Good
Flame resistance:	Outstanding
Flexibility:	Outstanding
Abrasion resistance:	Moderate
Tensile strength:	Good

Silicaflex™ Tape AB

A low cost, convenient, field-installable solution to some of the most demanding high temperature problems.

A health conscious alternative to asbestos
Silicaflex™ Tape AB is a slit silica tape constructed from 96% pure SiO2 silica fiber, coated one side with a pressure sensitive adhesive backing that facilitates installation. The adhesive decomposes at high temperatures, leaving a perfectly tape-wrapped hose, cable or pipe.

Designed for severe heat environments
Suitable for use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C), Silicaflex Tape AB sets the standard for flexibility and minimum lineal shrinkage under high heat conditions.

Durability is further enhanced with a proprietary hydrocarbon coating, giving Silicaflex™ Tape AB unmatched abrasion resistance and tensile strength.

Stock and custom sizes
Available in standard widths of 2" (50 mm) and 4" (102 mm). Custom widths also available by special order. Supplied only in 150 ft (45 m) rolls.

Silicaflex™ Sleeve

Braided 96% pure silica fiber, the health conscious alternative to asbestos and ceramic sleeves and wraps.

Outstanding durability and flexibility
Silicaflex™ sleeves set the standard for flexibility and minimum lineal shrinkage under high heat conditions. Durability is further enhanced with a proprietary hydrocarbon coating, giving Silicaflex sleeves unmatched abrasion resistance and tensile strength.

Excellent high-heat performance
Silicaflex™ is a braided silica sleeve, constructed from a 96% pure SiO2 silica fiber, suitable for continuous use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C).

Silicaflex sleeves can be combined with other low cost sleeve products to increase insulation values or abrasion resistance for the most demanding applications.

Silicaflex™ Sleeve - Quick Facts

Diameters 1/2" (12 mm) up to 6" (152 mm)	
Standard lengths:	50 ft (15 m)
Continuous operating temp:	1800°F (982°C)
Max short term exposure:	3000°F (1650°C)
Molten splash resistance:	Good
Weld spatter resistance:	Excellent
Flame resistance:	Outstanding
Abrasion resistance:	Moderate
Flexibility:	Outstanding

Thermosleeve™ B - Quick Facts

Inside diameters from 1/2" (13 mm) to 4" (102 mm)	
Continuous operating temp:	1000°F (538°C)
Max short term exposure:	1300°F (705°C)
Flame resistance:	Very Good
Abrasion resistance:	Good
Flexibility:	Outstanding
Water and oil resistance:	Moderate

Thermosleeve™ B

Heavy wall braided glass fiber sleeve: economical hose and cable protection where exposure to molten splash, oils or moisture is not a factor.

Cost-efficient high temperature performance
Thermosleeve™ B is a heavy wall braided glass fiber sleeve capable of operating at a continuous temperature of 1000°F (538°C). High bulk fiber construction gives excellent insulation properties, and the texturized, untreated construction allows Thermosleeve™ B to exhibit excellent dielectric strength and resistance to thermal conductivity.

Use alone or in combination
Thermosleeve™ B can be used by itself, or under other sleeve products (such as Pyrojacket®, Pyreflect™ or Silicaflex™) to significantly boost insulation values at modest cost.

Choice of grades
Thermosleeve™ B is available in 2 grades: 1/8" (3.2 mm) wall thickness or 1/16" (1.6 mm) wall thickness.

Thermosleeve™ S

Constructed from smooth glass fiber yarn, braided at high yield angles to allow for approximately 25% expansion and contraction.

Heavy wall braided glass fiber sleeve
Thermosleeve™ S is an expandable braided glass fiber sleeve capable of operating at a continuous temperature of 1000°F (538°C).

Designed to expand and contract by approximately 25% of its nominal size, the smooth glass fiber yarn is heat cleaned and coated with an acrylic saturant to eliminate loose fibers, enhance handling characteristics, and improve abrasion resistance. The acrylic saturant begins to decompose around 400°F (204°C), but with no effect on the thermal performance of the sleeve.

Expandability creates custom size range
Due to its wide range of expansion and contraction, Thermosleeve™ S is available in just four nominal sizes that cover a complete range of diameters from 3/8" (10 mm) up to 3-1/2" (89 mm).

Thermosleeve™ S - Quick Facts

Continuous operation:	1000°F (538°C)
Max short term exposure:	1300°F (705°C)
Flame resistance:	Very Good
Abrasion resistance:	Very good
Flexibility:	Outstanding
Expandability:	Outstanding
Water and oil resistance:	Moderate

Flexgard™ Sleeve - Quick Facts

Continuous operating temp:	302°F (150°C)
Melt Threshold:	473°F (245°C)
Molten splash resistance:	Not recommended
Flame resistance:	Good
Abrasion resistance:	Outstanding
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

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Flexgard™ Sleeve

Woven Polyester PET sleeve delivers high abrasion strength and heat resistance to protect from hose spray-out failures

Stays intact at the highest operating temperature possible for any Polyester PET woven sleeve
Designed for use in applications up to 302°F (150°C) continuous, Flexgard™ is the only abrasion sleeve treated with our proprietary heat and flame resistant coating technology.

Protective shield between operators and ruptured hoses
If your application requires protecting personnel from hose spray-out failures, Flexgard™ outperforms all other Polyester PET woven sleeves in both heat and abrasion resistance.

Custom colours and packaging options
Flexgard™ is available in inside diameters from 0.67" (17 mm) up to 3.66" (93 mm). Standard colour is black, but custom colours are available by special order. Supplied in 164 ft (50 m) coils or in custom packaging.

Odourless End Dip™

Odourless non-toxic curing agent sets up in under 10 minutes and cures completely in 3-6 hours at typical room temperature.

Designed to coat Pyrojacket® and Pyroblanket™ ends
Newly developed Odourless End Dip™ is designed to coat Pyrojacket® and Pyroblanket™ at the ends. This special formulation of liquid silicone rubber prevents fraying and the absorption of flammable oils or other contaminants into exposed glass fibers.

Ventilation not required
Unique liquid silicone rubber formulation utilizes a non-toxic, odour free curing agent, eliminating the need for costly ventilation systems during the curing process.

Available in 1 L, 4 L, and 20 kg (44 lb) pails.

Odourless End Dip™ - Quick Facts

Continuous operating temp:	500°F (260°C)
Max short term exposure:	2000°F (1093°C)
Flame resistance:	Good
Abrasion resistance:	Good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding
Elasticity:	Outstanding
Adhesion:	Outstanding

Pyrosealant™ - Quick Facts

Continuous operating temp:	550°F (287°C)
Max short term exposure:	1000°F (538°C)
Flame resistance:	Very good
Abrasion resistance:	Very good
Flexibility:	Outstanding
Water and oil resistance:	Outstanding
Elasticity:	Outstanding
Adhesion:	Outstanding

Pyrosealant™

High amorphous silica content outperforms other high temp sealants as a seal or gasket in severe environments.

Cures at room temperature
Pyrosealant™ forms durable, flexible, vibration-resistant gaskets directly on the flange, and cures to a tack-free state in 10-15 minutes under normal room temperature conditions.

Pyrosealant™ is a heat resistant iron oxide red sealant and gasket making material that cures at room temperature into a tough, rubbery solid. It is composed of amorphous silica, polydimethyl-siloxane, iron oxide, and a specially developed curing catalyst to facilitate a moisture-sensitive cure at room temperature within approximately 18 hours.

For best adhesion, Pyrosealant™ should be installed on a clean, dry surface.

Continuous temperature rating of 550°F (287°C)
Due to its high silica content, Pyrosealant™ outperforms other high temperature sealants. It has a continuous temperature rating of 550°F (287°C) and withstands intermittent exposure to 1000°F (538°C). Pyrosealant is ideal for outdoor and maintains its flexibility to -65°F (-59°C)

Standard cartridge or custom packaging
Supplied in 10.9 oz (310 ml) caulking cartridges. Custom packaging is also available.

Pyreflect™ Blanket

Performance lab tested, Pyreflect™ fire blanket reflects at least 90% of radiant heat energy.

Cable and hose protection in extreme heat
An ideal choice for operations where radiant (infrared) heat flow must be blocked or stopped. The mirror-like surface of Pyreflect™ reflects heat away, instead of absorbing heat and dissipating it through the fabric.

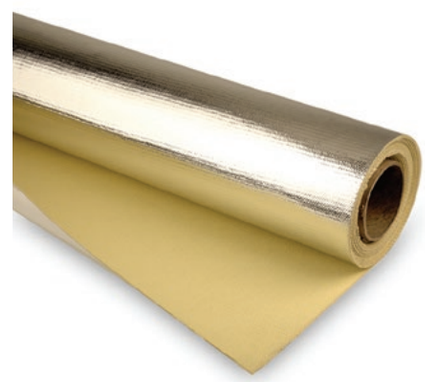
Pyreflect™ heat reflective blanket is fabricated from two layers of aluminum coating and a protective film, all laminated by means of a heat stable adhesive to a specially designed heavy grade aramid (Nomex®/ Kevlar®) fiber cloth. The aluminum layers will not delaminate from the cloth, even under the most extreme heat conditions. Nomex® and Kevlar® are registered trademarks of Dupont.

Tough performer in tough conditions
Pyreflect blanket has extremely durable construction, and can meet the most demanding abrasion and tensile strength requirements.

Stock rolls or custom shapes and closures
Pyreflect™ blanket is sold in rolls 40" (1016 mm) and 60" (1525mm) wide. It can also be custom fabricated into almost any shape, complete with closures or factory installed grommets to meet your specifications.

Pyreflect™ Blanket - Quick Facts

Continuous operating temp:	650°F (343°C)
Max short term exposure:	1000°F (538°C)
Flame resistance:	Good
Abrasion resistance:	Outstanding
Durability:	Outstanding
Flexibility:	Outstanding
Water and oil resistance:	Outstanding



Pyreflect™ Sleeve - Quick Facts

Full diameter range up to 12" (305 mm)	
Continuous operating temp:	650°F (343°C)
Max short term exposure:	1000°F (538°C)
Flame resistance:	Good
Abrasion resistance:	Outstanding
Durability:	Outstanding
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

Pyreflect™ Sleeve

Performance lab tested, Pyreflect™ sleeve reflects at least 90% of radiant heat energy.

Cable and hose protection in extreme heat
An ideal choice for operations where occasional radiant (infrared) heat flow must be blocked or stopped. The mirror like surface of Pyreflect™ reflects heat away, instead of absorbing heat and dissipating it through the fabric.

Pyreflect™ heat reflective sleeve is fabricated from Pyreflect Blanket™. Pyreflect has two layers of aluminum coating and a protective film, all laminated to a specially designed heavy grade aramid fiber cloth by means of a heat stable adhesive. The aluminum layers will not delaminate from the cloth, even under the most extreme heat conditions.

Available with VCO closure
The sleeve is constructed by slitting the blanket to the appropriate width and surge stiching the edge with high temperature glass fiber thread. It can also be supplied with the VCO option of a high temperature hook-and-loop closure system sewn inside the sleeve to allow installation without disconnecting hoses or cables.

Pyreflect™ Sleeve has extremely durable construction and can meet the most demanding abrasion and tensile strength requirements.

Fiberflect™ Blanket AB

Ideal for radiant heat applications requiring high adhesion, abrasion protection, and a surface impervious to fluids and contaminants.

Easy to install adhesive heat-reflective sheet
Fiberflect™ is a heat reflective flexible sheet, constructed from a thin layer of aluminum foil which is heat stable laminated to a texturized glass fiber base fabric on one side, with a pressure sensitive adhesive on the other side to facilitate installation.

The durable construction of Fiberflect blanket is suitable for demanding applications up to 400°F (204°C) continuous operating temperature. The glass fiber base fabric will stay intact up to 1000°F (538°C).

Fiberflect™ blanket is supplied in standard 150 ft (45 m) rolls x 60” (1525 mm) wide, and custom lengths and shapes.

Fiberflect™ Blanket AB - Quick Facts

Continuous operating temp:	400°F (204°C)
Max short term exposure:	1000°F (538°C)
Flame resistance:	Good
Abrasion resistance:	Outstanding
Durability:	Outstanding
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

Fiberflect™ Tape AB - Quick Facts

Continuous operating temp:	400°F (204°C)
Max short term exposure:	1000°F (538°C)
Flame resistance:	Good
Abrasion resistance:	Outstanding
Durability:	Outstanding
Flexibility:	Outstanding
Water and oil resistance:	Outstanding

Fiberflect™ Tape AB

Heat-reflective tape for radiant heat applications requiring high adhesion, abrasion protection, and a surface impervious to fluids and contaminants.

Tough, durable heat-reflective adhesive tape
Fiberflect™ heat-reflective tape is constructed from a thin layer of aluminum foil heat-stable laminated to a texturized glass fiber base fabric on one side, with a pressure sensitive adhesive backing on the other to facilitate installation.

The durable construction of Fiberflect™ Tape is suitable for demanding applications up to 400°F (204°C) continuous operating temperature. The glass fiber base fabric will stay intact up to 1000°F (538°C).

Available in 2” (51 mm) and 4” (102 mm) widths in 150 ft (45 m) rolls.

SPECIAL CAPABILITIES

Our unique fabrication abilities coupled with our innovative and comprehensive line up of high temperature products allow us to quickly and accurately develop application-specific prototypes to meet the technical demands of our customers.

Our private branding abilities allow us to put your company name and logo on some of our most popular products like Pyrojacket.

We have extensive experience in a wide range of industrial environments, including:

Integrated Steel Mills
EAF Mini Mills
Non-Ferrous Smelting
Mining Equipment
Forestry Equipment
Petrochemical
Offshore Drilling
Glass and Ceramics
Tire Plants
Diecasting
Chemical Processing
Automotive Foundries
Turbines and Generators
Offshore and Marine
Injection Molding
Auto Racing

OUR COMMITMENT TO CUSTOMER SERVICE

We recognize that the continued success of our company is directly linked to maintaining our base of satisfied customers. The primary focus of our organization is to meet and exceed your needs in terms of quality, on time deliveries, competitive pricing and product innovation.

The Insulflex Total Quality Management System is your assurance that we'll maintain the highest standards in the world. Our teamwork approach to problems and solutions means we ship your order correctly, efficiently and on time.

We have a network of over 500 authorized Insulflex® distributors in more than 60 countries around the world. And it's growing!

THE AUTHORIZED INSULFLEX DISTRIBUTOR

Your local Authorized Insulflex Distributor has undergone training in the use of our products and can solve high temperature problems before they start to affect your bottom line.

All Authorized Insulflex Distributors maintain a stocking inventory of our products. In addition, they can utilize our Quickship Program which enables them to access our inventory and receive most orders within 24 to 96 hours, at very competitive rates.

Interested in becoming an Insulflex distributor? –You'll need to be the best in your field and ready to promote our products. You will require extensive technical knowledge and a commitment to business integrity and customer service. Contact us for details!

LIABILITY STATEMENT

The information and illustrations shown herein are believed to be reliable. ADL Insulflex, Inc. makes no warranties as to the accuracy or completeness of this information 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 the use or misuse of these products.

Insulflex products are used by those with technical competence in the fields of engineering and high temperature technology. Users should make their own evaluation to determine the suitability of Insulflex products for each specific application.
Samples for testing are available at no charge.

PRICE AND RETURN POLICY

Standard items in original packaging and condition may be returned within 90 days. A 20% restocking charge will apply.
Custom-made, private branded and specially fabricated products are non-returnable.
Products with manufacturing defects may be returned within 1 year for a full refund.
All prices and specifications are subject to change without notice.

ADL Insulflex, Inc.

A member of The ADL Group

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