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## Pyroblanket™ 17oz

Product Name: Pyroblanket™ 17 oz (578 g/m<sup>2</sup>) – Premium Grade

Technical Description: 17 oz Premium grade Pyroblanket is a specially woven, strong, lightweight flexible fiberglass fabric which is coated and impregnated from both sides with a premium liquid silicone rubber. Insulflex 17 oz premium grade Pyroblanket is designed to exceed industry standards for outdoor and offshore use where resistance to moisture, sunlight and corona is desirable.



Temperature Capabilities: All grades of Pyroblanket are rated for –65 to 500°F (-54 to 260°C).

Short term flame exposure to 2000°F (1093°C) will start to transform silicone rubber to SiO<sub>2</sub>. Base glass fabric is rated for continuous operation to 1000°F (538°C) with transient exposure to 1200°F (648°C). The base glass fabric will soften in the 1350 to 1650°F (732 to 898°C) range. Melting point for the base glass fabric is 2050 to 2160°F (1121 to 1182°C).

Product Overview: 17 oz Premium Pyroblanket is available in 60" (1525mm) wide rolls. It is used primarily in the fabrication of valve insulation covers and hanging flame protective blankets for outdoor and offshore use.

Premium Pyroblanket is impregnated with a high pressure roll process to ensure excellent adhesion. This is critical to its ability to withstand outdoor exposure to sunlight and moisture. It can be supplied in bulk rolls, fabricated shapes or short lengths complete with grommets for hanging.

Weight: 17 (+/- 0.5 oz/sy) FTMS 191-A-5041

Nominal Thickness: 0.018" (0.457mm)

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## Pyroblanket™ 17oz

Tear Strength (lb): 56 warp FTMS 191-A-5136  
53 fill FTMS 191-A-5136

Tensile Strength: 233 warp FTMS 191-A-5100  
137 fill FTMS 191-A-5100

Base fabric: Satin Weave – 4 harness

Weave count: 48 x 32 (warp x fill)

Burst Strength: 600psi ( 42kg/cm<sup>2</sup>) ASTM-D-3786-87

Hydrostatic Resistance: 291 PSI FTMS 191-A-5512

Oil and Hydrocarbon resistance: Can be certified to MIL-C-20696 sec 4.2.4

Flame Resistance : Flame spread index 0 ASTM E84-91a

Smoke developed index: 20 ASTM E84-91a

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: 17 oz Pyroblanket is not designed to protect personnel from impact projectiles.

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### Pyroblanket™ 32oz

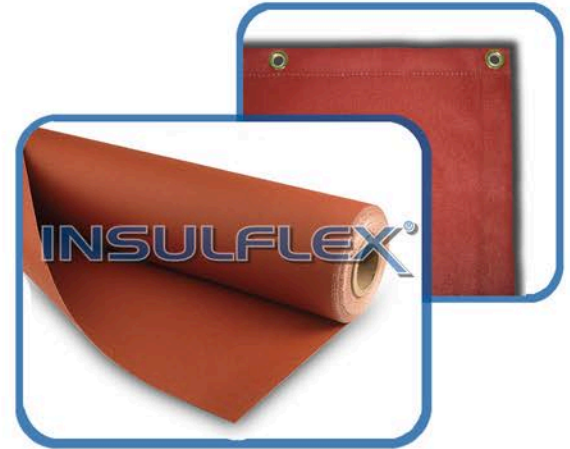
Product Name: Pyroblanket™ 32 oz (1085 g/m<sup>2</sup>)  
Industrial Grade/Calendared

Technical Description: 32 oz Industrial grade calendared Pyroblanket is a specially woven, strong, mid-weight flexible fiberglass fabric which is coated and impregnated from both sides with a premium red, liquid silicone rubber. Insulflex 32 oz industrial grade Pyroblanket is designed to exceed industry standards for outdoor and offshore use where resistance to moisture, sunlight and corona is desirable. It is considered appropriate for use as high-grade welding protection cloth.

Temperature Capabilities: All grades of Pyroblanket are rated for -65 to 500°F (-54 to 260°C). Short term flame exposure to 2000°F (1093°C) will start to transform silicone rubber to SiO<sub>2</sub>. Base glass fabric is rated for continuous operation to 1000°F (538°C) with transient exposure to 1200°F (648°C). The base glass fabric will soften in the 1350 to 1650°F (732 to 898°C) range. Melting point for the base glass fabric is 2050 to 2160°F (1121 to 1182°C).

Product Overview: 32 oz Industrial calendared Pyroblanket is available in 36" (915mm) and 60" (1525mm) wide rolls. It is used primarily in the fabrication of valve insulation covers, hanging flame protective blankets for outdoor and offshore use, and for protective welding curtain applications.

Calendared Pyroblanket is impregnated with a high pressure roll process to ensure excellent adhesion. This is critical to its ability to withstand outdoor exposure to sunlight and moisture. It can be supplied in bulk rolls, fabricated shapes or short lengths complete with grommets for hanging.



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## Pyroblanket™ 32oz

Weight: 32 oz/yd<sup>2</sup> (+/- 7.5%) ASTM-D3776-96

Mullens Burst Strength: 992 psi ASTM-D3786-87

Nominal Thickness: 0.037" (0.940 mm)

Tear Strength (lb): 56 warp STM-D5034-95  
52 fill

Tensile Strength (lbs/in<sup>2</sup>): 355 warp ASTM-D5587-96  
204 fill

Base fabric: Industrial Satin Weave

Colour: Iron oxide red

Flame Resistance :

Char Length: 1" max FED191/5903.2

Afterglow: 1 second max FED191/5903.2

Flameout: 5 second max FED191/5903.2

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: Pyroblanket is not designed to protect personnel from impact projectiles.

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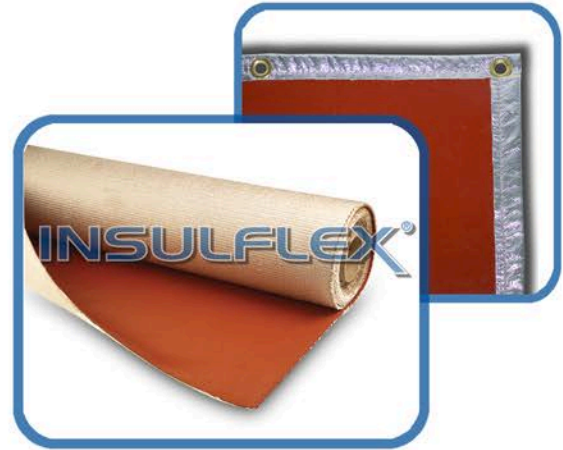
# INSULFLEX®

## Technical Data Sheet

### Pyroblanket™ 96oz

Product Name: Pyroblanket™ 96 oz

Technical Description: 96 oz Pyroblanket™ is specially woven giving it high strength and high insulating properties. This super heavy-weight flexible fiberglass fabric is coated and impregnated on one side with a thick layer of specially compounded red, liquid silicone rubber. Insulflex® 96oz Pyroblanket™ is designed to provide excellent protection in the most severe industrial applications.



Temperature Capabilities: All grades of Pyroblanket™ are rated for -65°F to 500°F (-54°C to 260°C).

Short term flame exposure to 2000°F (1093°C) will start to transform silicone rubber to SiO<sub>2</sub>. Base glass fabric is rated for continuous operation to 1000°F (538°C) with transient exposure to 1200°F (648°C). The base glass fabric will soften in the 1350°F to 1650°F (732°C to 898°C) range. Melting point for the base glass fabric is 2050°F to 2160°F (1121°C to 1182°C).

Product Overview: 96 oz Pyroblanket™ is available in 40" (1016mm) wide rolls. It is used primarily for fabrication of specialized covers where severe molten splash occurs. The Silicone rubber coating is completely impervious to water, moisture and hydraulic oils.

Nominal Weight: 96 oz/yd<sup>2</sup>

Nominal Thickness: 0.145" (3.68 mm)

Flame Resistance: Excellent

Abrasion Resistance: Excellent

Color: Iron oxide red on one side/ white other side

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: Pyroblanket™ is not designed to protect personnel from impact projectiles

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# INSULFLEX®

## Technical Data Sheet

### Silicaflex™ Blanket

Product Name: Silicaflex™ Blanket

Technical Description: A silica cloth blanket designed to protect hoses, cables and other equipment from molten splash and intense radiant heat and flame.

Temperature Capabilities: Rated for 1800°F (982°C) continuous. 2300°F (1260°C) intermittent exposure.

Product Overview: Silicaflex Blanket is constructed from silica fibers that are at least 96% pure. Silicaflex textiles are an excellent alternative to asbestos for protecting hoses, cables and other equipment from extreme heat, molten metals, sparks and flame in a wide range of iron and steel industries, welding, burning, cutting and heat treating operations.

Silicaflex textiles resist most corrosive fluids and generate virtually no smoke or fumes even under the most severe heat conditions. Can be fabricated into custom curtains.

Available in:

18oz/yd<sup>2</sup> (610g/m<sup>2</sup>) 36" (915mm) wide x 0.030" (.76mm) thick

60" (1525mm) wide x 0.030" (.76mm) thick

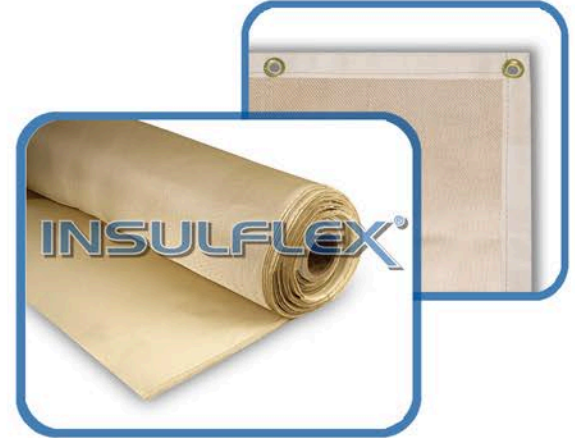
36oz/yd<sup>2</sup> (1220g/m<sup>2</sup>) 36" (915mm) wide x 0.050" (1.27mm) thick

60" (1525mm) wide x 0.050" (1.27mm) thick

Supplied in 150ft (45m) rolls. Can also be supplied in custom shapes, cut lengths, and special fabricated curtains.

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: All silica textiles exhibit poor resistance to molten alkalis, and have fair to moderate abrasion resistance. In applications where severe abrasion is a factor, a secondary covering is recommended.



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# INSULFLEX<sup>®</sup>

## Product: Silicaflex™ Blanket AB

### MATERIAL SAFETY DATA SHEET



#### 1. Chemical product and Company identification

Emergency contact:	ADL Insulflex, Inc. (address & emergency phone numbers - page 4)
Revised:	June 2011
Chemical family:	Amorphous silica
Formula:	Proprietary Mixture
Description:	Amorphous silica fiber yarns woven into a blanket with an adhesive backing.

#### 2. Composition / Information on ingredients

No Hazard rating is available for this product

Product composition CAS Reg. No.	Approx. % Wt.
Amorphous silica #7631-86-9	96%
Hydrocarbon coating	0.3%-0.5% (*% of actual coating as a % of the base silica material)
Proprietary adhesive	

#### 3. Hazards identification

Potential health effects:	
Ingestion:	May cause temporary irritation of the digestive tract, but not an expected route of entry in industrial uses.
Skin contact:	Temporary irritation of skin may be produced.
Eye contact:	May cause mild eye irritation.
Inhalation:	Inhalation of airborne fibers may cause irritation to the mouth, nose and throat.
Medical conditions aggravated:	None known
Sub-chronic (target organ) effects:	None known
Chronic effects/carcinogenic:	No known chronic health effects are associated with the use of this product under normal working conditions. No component present in this material at concentrations equal to or greater than 0.1% is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Principle Routes of Exposure:	Skin contact, inhalation, ingestion & eye contact.
Other:	

#### 4. First Aid measures

Ingestion:	Seek medical attention immediately.
Skin:	Wash thoroughly with soap and water.
Inhalation:	Remove person from source of exposure and seek medical attention immediately.
In case of eye contact:	Flush for 15 minutes with copious quantities of lukewarm water. Seek medical attention if irritation persists.
Note to physician:	None known.

#### 5. Fire Fighting measures

Flash point:	N/A
Auto Ignition temp.	Not determined
Flammable limits in air – upper %	N/A
Sensitivity to mechanical impact:	No
Sensitivity to static discharge:	No
Extinguishing media:	Standard fire-fighting media
Special fire fighting procedures:	The base silica material is non-combustible. The hydrocarbon coating and adhesive system may produce irritating and/or toxic gases in a sustained fire. Wear full fire-fighting protective equipment including self-contained breathing apparatus.

#### 6. Accidental release measures

Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Dispose according to governmental regulations.

#### 7. Handling and storage

Precautions for handling and storage:	Normal warehouse conditions. Particular care should be taken to minimize dust when working with “used” material. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.
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#### 8. Exposure controls / Personal protection

Engineering controls:	None known
Respiratory protection:	Wear an approved disposable-dust respirator designed for nuisance-type dusts.
Protective clothing:	Wear rubber gloves when handling this product. Personnel that are more susceptible to irritation from fibers or dusts should wear full-body coveralls.
Eye and face protection:	Safety glasses with side shields or chemical splash goggles must be worn to prevent eye contact. A good safety practice is to have an eye wash station readily available near the work area.
Other protective measures:	Use good personal hygiene practices. The use of protective cream before handling the material may prove beneficial.

Ventilation:	Local exhaust and/or general mechanical suggested.
Exposure Limits:	
Amorphous Silica	
PEL (OSHA)	80mg/m <sup>3</sup> +% SiO <sub>2</sub> OR 20 mppcf
TLV (ACGIH)	10 mg/m <sup>3</sup> (inhalable); 3 mg/m <sup>3</sup> (respirable)
NIOSH	6 mg/m <sup>3</sup>
IDLH	3000 mg/m <sup>3</sup>
Hydrocarbon coating:	This product is not considered hazardous as defined by 29 CFR 1910.1200 (OSHA Hazcom Standard)

## 9. Physical and chemical properties

Boiling point:	4046°F
Vapor pressure:	Not determined
Vapor density:	Not determined
Freezing point:	N/A
Melting point:	>3000°F
Physical state:	Solid
Odor:	None
Specific gravity:	2.20
% volatile by volume	Not known
pH:	Not known
VOC:	Not known
Solubility in water:	Insoluble

## 10. Stability and reactivity

Stability:	Stable
Hazardous polymerization:	Will not occur.
Combustion products:	Carbon dioxide, carbons monoxide, and possibly other compounds of unknown composition.
Conditions to avoid:	Base silica material is incompatible with basic phosphates, hydrofluoric acid, and some oxides and hydroxides. Adhesive backing is incompatible with strong oxidizers and strong acids.

## 11. Toxicological information

Material which has been subjected to elevated temperatures (>1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on the temperature and the length of service. The OSHA PEL for cristobalite is 0.05 mg/m<sup>3</sup> (respirable).

## 12. Ecological information

No information is available; however, toxicity is expected to be low, based on the insolubility in water of the product.

## 13. Disposal considerations

Disposal Method:	User should follow normal methods of disposal in accordance with any governmental regulations.
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#### 14. Transport information

DOT shipping name:	N/A
DOT Hazard Class:	None
DOT Label:	N/A
UN/NA Label:	None
Placards:	N/A
IATA:	N/A
IMO IMDG code:	N/A
European Class:	
RID (OCTF):	N/A
ADR (ECE):	N/A
RAR (IATA):	N/A

#### 15. Regulatory information

SARA Section 313	None
CPSC Classification:	N/A
WHMIS Hazard Class:	Not regulated
Harmonized Code:	7019.39
Hazard rating systems	
HMIS:	Not known
NFPA	Not known

#### 16. Other

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Users of ADL Insulflex, Inc. products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures.

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## Pyreflect™ Blanket

Product Name: Pyreflect™ Blanket

Technical Description: A highly reflective engineered blanket. This blanket has a mylar surface applied onto one side of a aramid substrate. The aramid substrate is a blend of both Kevlar and Nomex. Pyreflect blanket is very durable and abrasion resistant.



Temperature Capabilities: Rated for 650°F (343°C) continuous, 1000°F (538°C) intermittent radiant heat.

Product Overview: Pyreflect is designed to reflect radiant heat, and exhibit the properties of flexibility, abrasion resistance, toughness and tensile strength.

Pyreflect blanket is designed to shed both ferrous and non-ferrous molten metal splash and is impervious to most liquids including those with a hydrocarbon base.

The Kevlar /Nomex inner core offers excellent long-term heat resistance. The mylar aluminization on the outer surface reflects the majority of the radiant heat, minimizing the heat energy transfer through the blanket.

Dimensional Data: Available in 20oz/yd<sup>2</sup> (678 grams/m<sup>2</sup>) weight - coated 1 side only  
Roll width available: 40" (1016 mm) and 60" (1525mm)  
Nominal Thickness: 0.050" (1.27mm)

Breaking Strength :  
Warp: 250lbs/inch  
Fill: 100lbs/inch

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## Pyreflect™ Blanket

Flame Resistance: The char length and the time required for a flame to extinguish. Test method 5903.

After flame: 2.0 seconds

Flammability Char length: 0.5 inches

Afterglow: 35 seconds

Low Temp. Resistance: No breaking, shattering, or cracking of the coating after conditioning for 4 hours at -20°F.

Supplied in custom lengths to meet application requirements up to 150ft (45m)

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: Not recommended for extreme molten splash applications.

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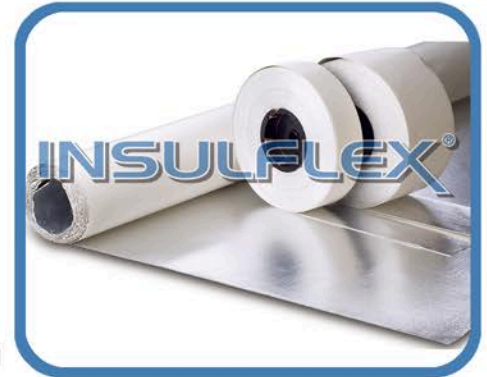
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## Fiberflect™ Blanket

Product Name: Fiberflect™ Blanket

Technical Description: A highly reflective, high adhesion blanket ideal for radiant heat applications. Fiberflect™ blanket is constructed of a texturized glass fiber base. One side consists of a thin layer of aluminum foil and the other, a pressure sensitive adhesive 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 base fabric will stay intact up to 1000°F (538°C)

Product Overview: Fiberflect™ has good flame, abrasion, water and oil resistance characteristics, and exhibits outstanding properties of flexibility, toughness, and tensile strength.

Fiberflect™ blanket is designed to reflect radiant heat energy, minimizing the heat energy transfer through the glass fiber base.

Available in:  
21oz/yd<sup>2</sup> (711.67g/mtr<sup>2</sup>)      60" (1524mm) wide      .027" (.76mm) thick

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

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: Not recommended for extreme molten splash applications.

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# INSULFLEX®

**Product: Removable  
Insulation Covers**

**MATERIAL SAFETY DATA SHEET**



## 1. Chemical Product and Company Identification

Emergency Contact:	ADL Insulflex, Inc. (address & emergency phone numbers below).
Revised:	June 2011
Chemical family:	Silicone rubber
Formula:	Proprietary mixture
Product description:	Insulation cover which consists of any or all of the following materials: PB32-36-2, PB96-40-1, SFHD-32-36, SS mesh, fiberglass insulation or silica needled insulation (see the individual MSDS sheets for details).

## 2. Other

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# INSULFLEX®

## Technical Data Sheet

### Cool Blue®

**Product Name:** Cool Blue®

**Technical Description:** Cool Blue is constructed from a high bulk heavy E-Glass continuous filament yarn that is braided to produce a hollow sleeve. Braid architecture to allow finished coated product to be slightly expandable where necessary. It is coated with a thick covering of blue silicone rubber.

**Temperature Capabilities:** Rated for 500°F (260°C) to -65°F (-54°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds.

**Product Overview:** Cool Blue is a sleeve that can easily installed over hoses, cables, tubing or pipes. It offers excellent resistance to radiant heat, abrasion, moisture, chemicals, vibration, and electricity.

In addition to protecting hoses, cables and pipes etc., Cool Blue can protect people from incurring scorching burn injuries on hot braided hoses and pipes. 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's excellent moisture resistance makes it ideal to use outdoors.

**Dimensional Data:** Inside diameters available range from ½" (12.7mm) to 3-1/2" (89mm). Standard lengths are 50ft (15 mtrs) and 100ft (30 mtrs).

**Nominal wall thickness:** Average of 0.180" (4.57mm)

**Installation:** Allow tolerance to install over hoses or cable. Both length and co-efficient of friction should be taken into account when determining correct diameter.

**Cautionary Notes:** N/A



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## EAF Cable Cover

Product Name: EAF Cable Cover fabricated from 96oz Pyroblanket™

Technical Description: Pyroblanket is constructed from a fiberglass base fabric and coated with a specially compounded iron oxide red silicone rubber.

Temperature Capabilities: The base fabric used in Pyroblanket will withstand 1100°F (598°C) continuous operating temperature. The silicone rubber coating will withstand 500°F (260°C) continuous. The smooth silicone rubber coating is designed to shed 3000°F (1650°C) molten splash before it can severely damage the material.

The Pyroblanket is flameproof.

Product Overview: EAF Cable Covers are available in various widths making it suitable for a range of applications from welding spatter to EAF wet charges. It can be fabricated into almost any shape, and is soft, flexible and extremely tough and tear resistant.

Pyroblanket has excellent moisture resistance, making it ideal for outdoor use.

### Dimensional Data:

Weight: 96oz/yd<sup>2</sup> (3260grams/mtr<sup>2</sup>) - coated 1 side only

Width: 40" wide (1016mm)

Nominal wall thickness: 0.145" (3.68mm)

Nominal wall thickness along Velcro closure: 0.390" (9.91mm)

Installation: Depends on a wide variety of application parameters.

Cautionary Notes: 96oz Pyroblanket is designed for severe molten splash applications.



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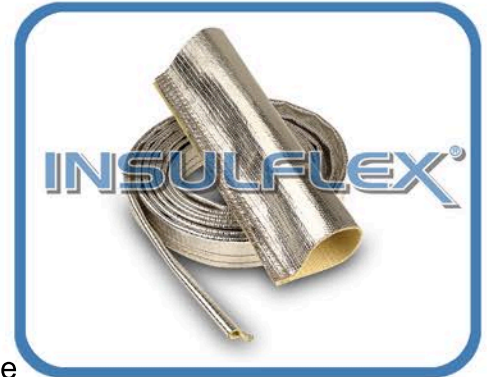
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## Pyreflect™ Sleeve

Product Name: Pyreflect™ Sleeve

Technical Description: A fabricated sleeve constructed from a highly reflective engineered blanket. This blanket has a mylar surface applied onto one side of a aramid substrate. The aramid substrate is a blend of both Kevlar and Nomex. The sheet is cut to size, and sewn into a sleeve using high temperature thread. Pyreflect sleeve is very durable and abrasion resistant.



Temperature Capabilities: Rated for 650°F (343°C) continuous, 2000°F (1093°C) intermittent radiant heat.

Product Overview: Pyreflect is designed to reflect radiant heat, and exhibit the properties of flexibility, abrasion resistance, toughness and tensile strength.

Pyreflect sleeve is designed to shed both ferrous and non-ferrous molten metal splash and is impervious to most liquids including those with a hydrocarbon base.

The Kevlar /Nomex inner core offers excellent long-term heat resistance. The mylar aluminization on the outer surface reflects the majority of the radiant heat, minimizing the heat energy transfer through the sleeve.

Pyreflect sleeve is double stitched with a PTFE coated silica/fiberglass thread to ensure a durable construction.

Dimensional Data: Available in a wide range of diameters from 3/4" (19mm) up to 12" (305mm). Also available with Velcro closure option from 1" (25mm) up to 12" (305mm) diameters. Can be supplied in custom lengths to meet application requirements.

Nominal Thickness: 0.050" (1.27mm)

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## Pyreflect™ Sleeve

Breaking Strength (blanket material):

Warp: 250lbs/inch

Fill: 100lbs/ inch

Flame Resistance: The char length and the time required for a flame to extinguish. Test method 5903.

After flame: 2.0 seconds

Flammability Char length: 0.5 inches

Glow Time: 35 seconds

Low Temp. Resistance: No breaking, shattering, or cracking of the coating after conditioning for 4 hours at -20°F.

Installation: Can be installed over almost any hose or cable.

Cautionary Notes: Not recommended for extreme molten splash applications.

Thread may unravel if the sleeve is cut.

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## Aerostyle Pyrojacket®

Technical Description: Pyrojacket is constructed from a high bulk E fiberglass fiber that is braided to produce a hollow sleeve. Braid architecture to allow finished coated product to be slightly expandable where necessary. It is coated with a thick covering of iron oxide red silicone rubber.



Temperature Capabilities: Rated for 500°F (260°C) to -65°F (-54°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds.

### Technical Certifications:

- DNV-GL Certified to 800°C/30mins. (ISO15540 & ISO15541)
- SAE AS1072E Compliant
- MSHA Certified for use in underground mines
- UL 1441 Certified
- VW1 Flame Test Certified
- BS EN 373 Molten Splash Tested
- BS EN 388 Abrasion Tested
- BS EN ISO 6940 Flame Resistance Tested
- BS EN ISO 6530 Oil Resistance Tested
- BS 2576 Tensile Strength Tested
- DIN 45545 Low Smoke Toxicity
- DIN 54837/5510-2 Rail Vehicle Certified for Resistance to Combustibility
- DIN 5659-2/5510-2 Rail Vehicle Certified for Toxicity
- LNE French Rail Certification STM-S-001; Class F0
- DIN EN45545-2:2013-08 Rail Certification

Oil and Fluid Resistance: Impervious to most liquids including those with a hydrocarbon base. Remains functional after immersion for 120 hours at 80°F in MIL-L-6082 and Skydrol 500.

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## Aerostyle Pyrojacket®

**Product Overview:** Pyrojacket is a sleeve that can be easily installed over hoses, cables, tubing or pipes. It offers excellent resistance to molten metal splash, radiant heat, flames, abrasion, corrosive atmosphere, moisture, chemicals, vibration, and electricity.

In addition to protecting hoses, cables and pipes etc., Pyrojacket can protect people from incurring scorching burn injuries on hot braided hoses and pipes.

Pyrojacket's excellent moisture resistance makes it ideal for use outdoors.

**Dimensional Data:** Available in diameters from 1/4" (6mm) to 6" (152mm). Standard lengths are 50 ft (15 mtrs) and 100ft (30 mtrs).

**Nominal wall thickness:** 0.142" ( 3.61mm)

**Installation:** Allow tolerance to install over hoses or cable. Both length and co-efficient of friction should be taken into account when determining correct diameter.

**Cautionary Notes:** N/A

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## Industrial Pyrojacket®

Product Name: Industrial Grade Pyrojacket™

Technical Description: Pyrojacket is constructed from a high bulk fiberglass fiber that is woven to produce a hollow sleeve. It is coated with a thick covering of iron oxide red silicone rubber.

Temperature Capabilities: Rated for 500°F (260°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds.

Product Overview: Pyrojacket is a sleeve that can be easily installed over hoses, cables, tubing or pipes. It offers excellent resistance to molten metal splash, radiant heat, abrasion, corrosive atmosphere, moisture, chemicals, vibration, and electricity.

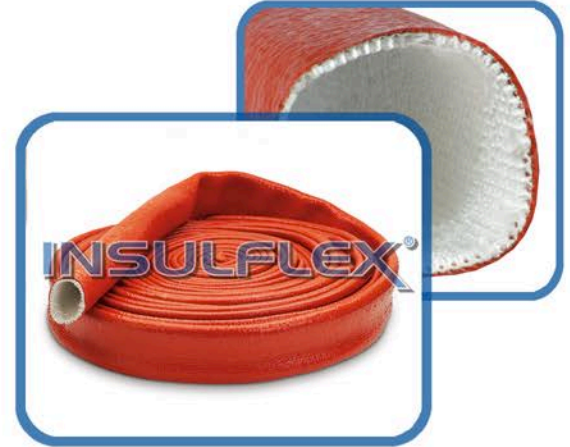
In addition to protecting hoses, cables and pipes etc., Pyrojacket can protect people from incurring scorching burn injuries on hot braided hoses and pipes.

Pyrojacket's excellent moisture resistances make it ideal for use outdoors

Dimensional Data: Available in diameters from 1/4" (6mm) to 6" (152mm). Standard lengths are 50 ft (15 mtrs) and 100ft (30 mtrs)

Installation: Allow tolerance to install over hoses or cable. Both length and co-efficient of friction should be taken into account when determining correct diameter.

Cautionary Notes: N/A



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### Pyrojacket® VCO

Product Name: Pyrojacket® VCO

Technical Description: Pyrojacket® VCO is constructed from a high bulk glass fiber braided 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, making it ideal for retro fit applications.

Temperature Capabilities: Rated for 500°F (260°C) to -65°F (-54°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds.

Hook and Loop Data: Insulflex Hi Temp Hook and Loop Closure meets the following standards:

- FMVSS-302 Flammability
- NFPA 1971-2000
- FAR 25.853 12 sec. ignition
- BSS 7239 smoke toxicity
- ABD0031
- ASTM E-662-97 smoke density

Product Overview: Pyrojacket® VCO can easily be installed over hoses, cables, tubing, or pipes. It offers excellent resistance to molten metal splash, radiant heat, abrasion, corrosive atmosphere, moisture, chemicals, vibration, and electricity.

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

Dimensional Data: Available in diameters from 7/8" (22mm) ID - 5-1/2" (140mm).

-7/8" (22mm) ID - 4-1/2" (115mm) ID use 3/4" (19mm) wide VCO

-5" (127mm) ID and larger use 1" (25mm) wide VCO

Standard lengths are 50 ft (15 m) and 100 ft (30 m). Custom lengths also available.

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## Pyrojacket® VCO

Nominal Wall Thickness: 0.142" (3.61mm)

Installation: Allow tolerance to install over hoses or cable. Both length and co-efficient of friction should be taken into account when determining correct diameter.

Cautionary Notes: The installation of hook-and-loop closure will negate the recognition of certifications.

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## Silicaflex™ Sleeve

Product Name: Silicaflex™ Sleeve

Technical Description: A heavy wall braided Silica sleeve, designed to protect hoses, cables and tubing from intense radiant heat and flame.



Temperature Capabilities: Rated for 1800°F (982°C) continuous. 2300°F (1260°C) intermittent exposure.

Product Overview: Silicaflex Sleeve is a soft braided textile sleeve with silica (S.O<sub>2</sub>) of at least 96%. The sleeve has an inorganic coating of hydrocarbon to improve abrasion resistance and handling characteristics.

Silicaflex textiles are an excellent alternative to asbestos for protecting pipes, hoses, cables and other equipment from extreme heat, molten metals, sparks and flame in a wide range of iron and steelmaking, welding, burning, cutting and heat treating operations.

Silicaflex textiles resist most corrosive fluids and generate virtually no smoke or fumes even under the most severe heat conditions.

Dimensional Data: Available in .065" (1.65mm) wall thickness. Diameter range is from 3/8" (10mm) to 4" (102mm). Supplied on soft (15m) spools.

Installation: May be installed over any hose, cable or pipe.

Cautionary Notes: All silica textiles exhibit poor resistance to molten alkalis, and have fair to moderate abrasion resistance. In dynamic flexing applications or other areas where abrasion is a concern, we recommend a secondary covering and adequate testing to ensure product suitability.

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## Technical Data Sheet

### Thermosleeve™ B

Product Name: Thermosleeve™ B

Technical Description: A flexible, expandable, braided sleeve made from textured E glass yarn.

Temperature Capabilities: Rated for 1000°F (538°C) continuous and intermittent exposure to 1200°F (650°C).

Product Overview: Thermosleeve B is a bulk economy grade fiberglass sleeve that offers maximum thermal efficiency for minimum cost. It is ideal for use as insulation or heat protection of hoses and cables. Thermosleeve B is often used underneath Pyrojacket or Pyreflect sleeve as an effective way of increasing insulation values for minimum cost.

Dimensional Data: Available in .125" (3.2mm) or .0625" (1.58mm) wall thickness. Diameter range is from 1/2" (13mm) to 4" (102mm) diameter.

Installation: Can be installed over almost any hose or cable.

Cautionary Notes: Extended exposure to water or other liquids causes weakening of the fibers. Loose fibers may cause some irritation to skin. Long sleeves, goggles and gloves recommended during installation.



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### Thermosleeve™ S

Product Name: Thermosleeve™ S

Technical Description: A braided fiberglass sleeve, made from “E-glass” fiber yarn. Heat-treated and coated with an acrylic saturant.

Temperature Capabilities: Rated for 1000°F (538°C) continuous, and intermittent exposure to 1200°F (650°C). The acrylic saturant used to improve handling and installation will begin to decompose at 400°F (204°C).

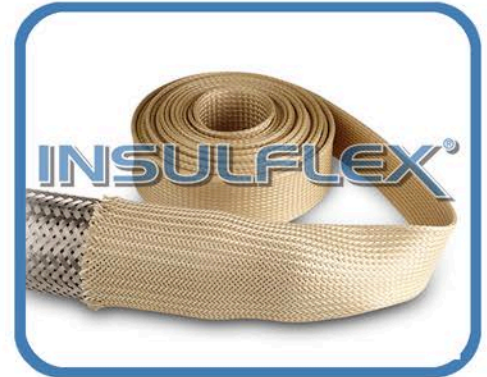
Product Overview: Thermosleeve S is a tan colored fiberglass sleeve with excellent expansion and contraction capabilities. The acrylic saturant and high braid angle allow the sleeve to expand and contract by at least 25% of its nominal size, thus allowing a full range of coverage from only 4 sizes. The smooth finish and absence of loose glass fibers make it a uniquely user-friendly fiberglass sleeve.

#### Dimensional Data:

TSS-10	5/8" (16mm) Nominal ID.	Covers 1/2" – 3/4" (13mm – 19 mm)
TSS-14	7/8" (22mm) Nominal ID.	Covers 3/4" – 1-1/8" (19mm – 29 mm)
TSS-22	1 3/8" (35mm) Nominal ID.	Covers 1-1/8" – 1-3/4" (29 mm – 44 mm)
TSS-44	2 3/4" (70mm) Nominal ID.	Covers 1-3/4" – 3-1/2" (44 mm – 89 mm)

Installation: Can be installed over almost any hose or cable. Note that expansion of the sleeve beyond its nominal diameter decreases its overall length.

Cautionary Notes: Ideally used for the protection of water-cooled induction furnace cables in light molten splash applications. Not recommended for extreme molten splash applications.



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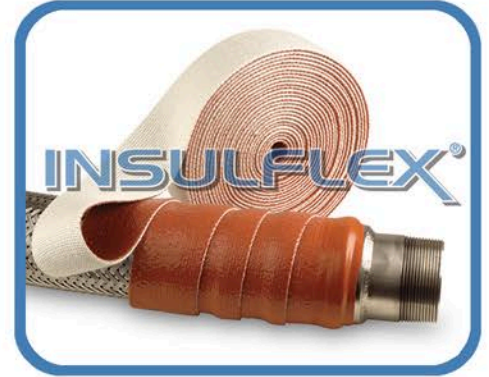
# INSULFLEX®

## Technical Data Sheet

### Pyrotape®

Product Name: Pyrotape®

Technical Description: White knitted fiberglass yarn woven to produce a flat strip that is coated on one side with thick covering of iron oxide red silicone rubber.



Temperature Capabilities: Rated for 500°F (260°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds.

Product Overview: Pyrotape is designed to provide a non-adhesive insulating wrap that can be used as a substitute for Pyrojacket protecting assemblies without disconnection of the hose or cable assembly.

Pyrotape offers excellent resistance to molten metal splash, radiant heat, abrasion, corrosive atmosphere, moisture, chemicals, vibration, and electricity.

Dimensional Data: Available in 1", 2", 3", 4", and 5" (25mm, 50mm, 76mm, 102mm, and 127mm) widths. Standard lengths are 50ft (15m) and 100ft (30 m).

Nominal thickness: 0.147" (3.73 mm)

Installation: A 30-50% overlap is recommended, using Pyrosil Tape or stainless steel ties to hold tape in place.

Cautionary Notes: Not recommended for severe dynamic flexing applications unless firmly clamped in place.

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## Technical Data Sheet

### Pyrosil™ Tape

Product Name: Pyrosil™ Tape

Technical Description: An iron oxide red silicone rubber tape with extreme elasticity. Self bonding, Pyrosil Tape cures to itself within seconds.

Temperature Capabilities: Rated for 475°F (246°C) continuous exposure.

Product Overview: Pyrosil Tape is designed to provide a self-fusing inorganic rubber insulator, and to be used in conjunction with Pyrojacket and Pyrotape as an end sealant to prevent moisture and hydraulic oils from wicking into the inner braid. The self-bonding silicone offers excellent resistance to radiant heat, corrosive atmosphere, moisture, chemicals, vibration, and electricity. Pyrosil Tape makes a flexible, homogenous, coil insulation that is easily applied with one wrap of the tape forming a void free system. Pyrosil Tape's excellent dielectric strength make suitable as an electrical insulator in a variety of applications

Dimensional Data: Available in 1" (25mm) and 1-1/2" (38.1mm) wide rolls.

Roll length: 36ft (11m)

Nominal thickness:

1" (25mm) wide = 0.020" (0.51mm)

1-1/2" (38.1mm) wide = 0.060" (1.52 mm)

Installation: Stretch tape during installation using at least a 50% overlap. For best results, use on clean, dry surfaces free from dirt and oil.

Cautionary Notes: Not recommended for exposure to molten splash or flame.



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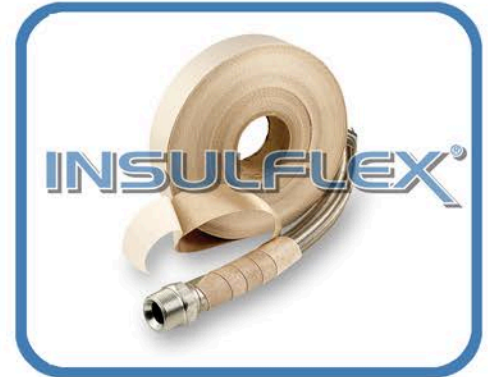
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### Silicaflex™ Tape AB

Product Name: Silicaflex™ Tape AB

Technical Description: A slit Silica tape designed to protect hoses, cables and tubing from intense radiant heat and flame. Coated with a pressure sensitive adhesive on one side to facilitate wrapping.



Temperature Capabilities: Rated for 1800°F (982°C) continuous. 2300°F (1260°C) intermittent exposure.

Product Overview: Silicaflex Tape AB is constructed by slitting full rolls of Silica cloth that have been coated with a pressure sensitive adhesive.

Silicaflex textiles are an excellent alternative to asbestos for protecting hoses, cables and other equipment from extreme heat, molten metals, sparks and flame in a wide range of iron and steelmaking, welding, burning, cutting and heat treating operations.

Silicaflex textiles resist most corrosive fluids and generate virtually no smoke or fumes even under the most severe heat conditions.

Slit tapes such as Silicaflex Tape AB are coated to improve low temperature handling properties and minimize raveling. Both the coating and the pressure sensitive adhesive will decompose at high temperatures.

#### Dimensional Data:

Available in 2" (51mm) and 4" (102mm) wide Tapes. Sold only in 150 ft rolls. Thickness is .030" (.76mm). Can also be supplied in .060" (1.52mm) thick by special order.

Installation: May be installed only on clean surfaces. Depending on the desired wall thickness, a spiral overlap may be used to increased thickness and aid integrity of the installation. In most cases a 50% overlap is recommended.

Cautionary Notes: All silica textiles exhibit poor resistance to molten alkalis, and have fair to moderate abrasion resistance. In applications where severe abrasion is a factor, a secondary covering is recommended.

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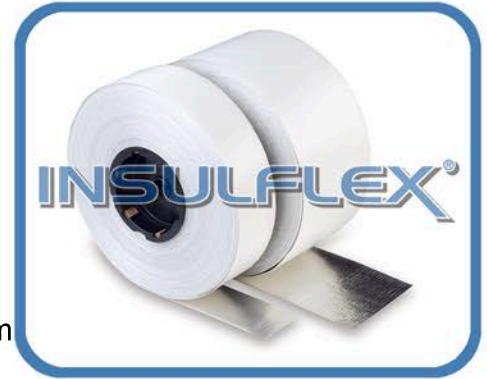
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## Fiberflect™ Tape AB

**Product Name:** Fiberflect™ Tape AB

**Technical Description:** A highly reflective, high adhesion tape ideal for radiant heat applications. Fiberflect™ Tape AB is constructed of a texturized glass fiber base. One side consists of a thin layer of aluminum foil and the other, a pressure sensitive adhesive to facilitate installation.



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

**Product Overview:** Fiberflect™ Tape AB has good flame, abrasion, water and oil resistance characteristics, and exhibits outstanding properties of flexibility, toughness, and tensile strength.

Fiberflect™ Tape AB is designed to reflect radiant heat energy, minimizing the heat energy transfer through the glass fiber base.

Fiberflect™ Tape AB has a thickness of 0.027" (.76mm) and is available in 2" (51mm) and 4" (102mm) widths in 150ft rolls.

**Installation:** Depends on a wide variety of application parameters.

**Cautionary Notes:** Not recommended for extreme molten splash applications.

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# INSULFLEX®

## Technical Data Sheet

### PyroRope™

Product Name: PyroRope™

Technical Description: Braided E-Glass rope with a thick covering of iron oxide red silicone rubber.

Temperature Capabilities: Rated for 500°F (260°C) continuous exposure, up to 2000°F (1093°C) for 15-20 minutes, and up to 3000°F (1650°C) for 15-30 seconds.

Product Overview: PyroRope is an ideal high temperature gasket where extra abrasion resistance and or the ability to withstand oil, moisture, molten splash, or flame is required.

PyroRope also offers excellent resistance to corrosive atmosphere, moisture, chemicals, vibration, and electricity.

Dimensional Data: A variety of braided ropes can be used as the substrate to achieve the desired compression density.

Diameters available from 1/4" (6 mm) to 1-1/4" (32mm)

Installation: To achieve proper seal, rope densities may vary for each application.

Cautionary Notes: N/A



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# INSULFLEX®

## Technical Data Sheet

### Flexgard™

**Product Name:** Flexgard™

**Technical Description:** Flexgard™ is an extremely durable textile woven sleeve designed to protect hose, cables and wires from abrasion.

**Temperature Capabilities:** Flexgard™ is rated for 302°F (150°C) continuous exposure and has a maximum melting threshold of 473°F (245°C)

**Product Overview:** Flexgard™ sleeve can be easily installed over hydraulic hoses, cables, tubing, or pipes. The bulked material used to entangled which offers excellent leakage containment due to hose failures. It exhibits excellent resistance to UV, atmospheric agents, moisture, and ageing, making it ideal for outdoor applications.

Flexgard™ is MSHA approved. MSHA approval number IC-258/00

**Dimensional Data:** Size ranges from 3/4" ID to 3-1/2" ID. 164 (50m) Standard coils available. Nominal wall thickness is 0.045 (1.14mm).

**Denier:** 900

**Toxicity:** Non-Toxic

**Material:** Polyester PET

**Installation:** Allow tolerance to install over hoses or cable.

**Cautionary Notes:** N/A



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# INSULFLEX<sup>®</sup>

## Technical Data Sheet

### Flexgard™ VCO

**Product Name:** Flexgard™ VCO

**Technical Description:** Flexgard™ VCO is a woven nylon sleeve with hook and loop closure.

**Temperature Capabilities:** Flexgard™ VCO is rated for 180°F (82°C) continuous exposure with excellent UV protection. It has excellent moisture resistance which makes it ideal for use outdoors.

**Oil and Fluid Resistance:** Excellent water and oil resistance.

**Product Overview:** Flexgard™ VCO sleeve can be easily installed over hoses, cables, tubing or pipes. The urethane coating over nylon offers excellent resistance to abrasion, UV, moisture, chemicals and vibration.

Flexgard™ VCO hook and loop closure system is ideal for retro fits, reducing installation labor time by up to 70%.

**Dimensional Data:** Size ranges from 1" ID to 8" ID.  
Standard roll lengths available in 75ft and 150ft lengths.

**Property Data:**

Mullens Burst PSI: 1500 plus

Hydro Mullens PSI: 150

Abrasion resistance: 100,000 cycles

Tear Test (lbs): Warp 14 plus/Fill 14 plus

Cold Crack (40°F): PASS

**Installation:** Allow tolerance to install over hoses or cable.

**Cautionary Notes:** N/A



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# INSULFLEX®

## Technical Data Sheet

### Pyro Sealant™

Product Name: Pyro Sealant PLT310

Technical Description: A heat resistant iron oxide red sealant and gasketing material that cures at room temperature into a tough rubbery solid.

Temperature Capabilities: Rated for -85° to 550°F (-65° to 287°C) under continuous operating conditions. During intermittent exposure, PLT310 will withstand temperatures as high as 1000°F (538°C). It is ideal for a number of sealing and bonding applications.

Product Overview: PLT310 is composed of Amorphous Silica, Polydemethyl-siloxane, 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, making it ideal for use as a seal or gasket in the most demanding high temperature environments.

Dimensional Data: Available in 10.9oz (310 ml) caulking cartridges. Available in other packaging upon request.

Installation: Application with a caulking gun.

Cautionary Notes: Use in a well ventilated area and avoid breathing vapors. Do not use in direct contact with fuels such as gasoline or diesel fuel.



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# INSULFLEX®

## Technical Data Sheet

### Odourless End Dip™

Product Name: Odourless End Dip™

Part Number: LSR2112

Technical Description: A fast setting silicone rubber that will cure at room temperature. This 1-Part silicone has excellent unprimed adhesion to many composites, metals and glass.

Temperature Capabilities: Rated for -65° to 260°C

Product Overview: Odourless End Dip™ has an oxime cure systems that allows handling of bonded assemblies within one hour. When fully cured, Odourless End Dip™ has excellent resistance to weathering, moisture, UV and high temperatures.

Odourless End Dip is most commonly used to terminate the ends of both Industrial and Aerostyle grade Pyrojacket™. Other uses include sealant, gasket coating and industrial coating.

Viscosity: 3000 cps  
Tensile Strength: 100 psi  
Specific Gravity: 1.02  
Elongation: 300 %  
Consistency: Liquid  
Durometer: 39 (Shore A)

Dimensional Data: Available in 1 or 4 liter pails. Special packaging is available upon request.



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## Odourless End Dip™

Installation: Spray onto or dip parts into liquid. Allow to cure.

Cautionary Notes: Use in a well ventilated area and avoid breathing vapors. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

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