

Other FlameShield™ High-Temperature Products

- All silicone rubber coated fiberglass products are for use to 500°F / 260°C continuous, 2200°F / 1205°C for up to 15 minutes & 3000°F / 1650°C for one minute on the coated side.
- All plain fiberglass products are for use at up to 1000°F / 540°C continuous. Plain fiberglass exhibits significant tensile strength loss approaching the softening point of 1555°F / 846°C.
- All vermiculite coated fiberglass products are rated at 1500°F / 815°C continuous and up to 2000°F / 1093°C short term. Vermiculite also adds abrasion resistance.
- All silica products are rated to 1800°F / 982°C continuous, 2300°F / 1260°C short term and short exposure to 3000°F / 1650°C.
- All aluminized products are rated to 650°F / 343°C continuous with 1000°F / 540°C short term. Excellent reflector of radiant heat. The aluminum coating melts at 1220°F / 660°C.
- Most plain fabrics, ropes and tapes available with PTFE coating or Pressure Sensitive Adhesive.

Sleeves

Fiberglass Sleaving. Knitted and Braided versions. 1/2 to 4 in. / 13 to 102 mm I.D. for knitted and up to 6 in. / 152 mm I.D. for braided.

Vermiculite Sleeve. Braided fiberglass coated with Vermiculite. 1/4 to 4 in. / 6 to 102 mm I.D.

Aluminized. Aluminum coated aramid fabric, slit and sewn into a sleeve or with Velcro® closure. Sleeve sizes of 1/2 to 12 in. / 13 to 305 mm I.D.

Silica Sleaving. Braided texturized Silica. 3/8 to 5 in. / 10 to 127 mm I.D. 1/2 in. / 13 mm through 4 in. / 102 mm I.D. for knitted and up to 6 in. / 152 mm I.D. for braided.

Saturated Fiberglass Sleaving. Braided sleeve with acrylic saturant - adds rigidity to reduce end fray and abrasive strength. Easy to apply over long hose or cable lengths and over splices or adapters due to braid angle. 1/4 to 4 in. / 6 to 102 mm I.D.

Fabrics

Uncoated Fiberglass. Texturized fiberglass. 40 & 60 in. / 102 & 152 cm widths, 150 ft / 45 m length rolls. 6 weights available: 18, 24, 30, 36, 40 & 64 oz/yd² / .47, .62, .78, .94, 1.0 & 1.66 kg/m².

Uncoated Silica. Plain or satin weave. 36 in. / 91 cm width, 150 ft / 45 m length rolls. Available in 3 weights: 18 & 20 oz/yd² (satin), 40 oz/yd² (plain) / .47, .52 & 1.0 kg/m².

Silicone Rubber Coated. High-temperature silicone rubber coated fiberglass roll cloth. Excellent protection for welding splatter protection & control and fabrications such as curtains, shields & covers. 60 in. roll width; 3 weights: 15, 17 and 32 oz/yd² / .39, .44 & .83 kg/m² fabric weight. (15, 17 and 32 mil / 0.38, 0.43 & 0.81 mm thick respectively). May be used indoors or outdoors.

Aluminized. Fiberglass fabric coated with Aluminum.

Vermiculite Coated Fiberglass. Fiberglass fabric coated with Vermiculite.

Ropes

Fiberglass and Silica. Knitted or braided ropes for use as seals and gaskets on industrial & commercial hot process doors, furnaces, kilns, wood-stoves and fireplaces.

Wire mesh jacketed fiberglass seals and gaskets for severe duty applications such as kiln doors for brick & tile making.

Fiberglass rope is available in soft or firm texture, and in sizes of 1/4 to 4 in. / 6 to 102 mm diameters. Silica rope in sizes 1/4 to 2 in. / 6 to 51 mm diameter. Available with Vermiculite coating and as square dry packing.

Tapes

Fiberglass, Vermiculite Coated Fiberglass and Silica. Woven tapes for use as seals and gaskets on industrial & commercial hot process doors, access plates, etc. Widths from 1/2 to 6 in. / 13 to 152 mm. Various thicknesses: 1/16, 1/8, 1/4 in. / 1.6, 3.2, 6.4 mm.

Needled Insulation

Fiberglass and Silica based needled insulation. Available in 1/4, 1/2 & 1 in. / 6, 13 & 25 mm thickness - ideal for adding insulation value between fabric layers. Typically used for insulating blankets and curtains, machinery covers, turbo and exhaust system covers.

FlameShield Products

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Represented By:

We maintain traceability for our aviation customers.



FlameShield™

**Pure Silicone Rubber Tape
meeting AA59163 & MIL-I-46852**

FlameShield Pure Silicone Tape is a high-temperature self-fusing, non-adhesive tape with excellent electrical and mechanical properties for protecting electrical splices and connections, hydraulic hoses and other electro-mechanical devices.

Aviation - Commercial - Industrial - Marine



FlameShield™ Pure Silicone Tape is a self-extinguishing non-flammable tape without an adhesive. Forms an excellent seal that is weather/water/air-tight when wrapped around electrical connections, splices and connectors, cable and wiring splices, hydraulic hose protection sleeves, duct joints and other electro-mechanical devices. Makes an excellent bundling tape that leaves no residue when removed.

The special silicone formulation of this tape self-fuses (self-amalgamating) when stretched and over-wrapped. Completely flexible at cold temperatures and can be used to +500°F / +260°C continuous exposure.

Does not support combustion and resists heat, flame, welding splatter, molten metals, solder drips, slag, grinding and electrical sparks, Ozone, UV light and contamination. Can be wrapped over oily or wet surfaces and is an excellent emergency repair tape for hoses and pipes.

Used extensively in aviation maintenance, repair and overhaul due to its non-flammability.

FlameShield™ Silicone Rubber Tape P/N T-SR-M025-16-XXX-20 meeting A-A-59163 and MIL-I-46852 Specification			
Property	Standard	Test Result or Tolerance	Test Method
Thickness*: Type I (.020) Type II (.020)	.020" (20 mil) .020" (20 mil) centre	+/- .002" +/- .002"	
Width*: T-SR-M025-16 T-SR-M038-24	1.00" 1.50"	+/- .002" +/- .002"	
Length	36 feet	+/- 6.00"	
Color*	Oxide Red or Black	N/A	
Guideline Color	Type I: none Type II: blue	N/A	
Operating Temperature	-60°C to +260°C -76°F to +500°F	N/A	
Brittle Temperature	-65°C / -85°F	N/A	
Tensile Strength	700 psi (Minimum)	1100	ASTM D412 / D119
Dielectric Strength	400 V/mil (.001")	575	MIL-I-46852 MIL A-A-59163 ASTM D-149
Dielectric Constant		2.94@ 1KHz	ASTM D150
Resistance		3 x 1014 ohms/cm3	MIL-I-46852
Elongation	300% (minimum)	700	ASTM D412 / D119
Tear Strength	85 psi (minimum)	146	ASTM D624
Bond Strength (1" width)	2 lbs (minimum)	5.5	MIL-I-46852
Adhesion	Shall not unwind more than 1.0" after 3 minutes with 600g load.	0.12"	ASTM D2148
Inclined Mandrel Tack Test (inch)		0.25"	ASTM D2148
Water Absorption (by wt.)	3% (maximum)	0.9%	MIL-I-46852
Dissipation Factor		<0.0004 @ 1KHz	ASTM D150
Hardness, durometer Shore A	55-65	55	ASTM D2148 ASTM D2240
Interleave Material	.002" thick Mylar		

* Other widths, thicknesses and colors available.

FlameShield™ Silicone Tape



FlameShield™ Silicone Tape

FlameShield™ Silicone Tape is a pure silicone tape that without an added adhesive makes a great weather tight / water tight seal.

This tape is self-fusing and forms a unified solid protective shield in 24 hours at room temperature or quicker at elevated temperatures.

Due to its excellent electrical and mechanical properties, this tape has many aviation, industrial, marine & commercial uses for protection of electrical splices & connections and mechanical sealing or repairs. Leaves no gummy or sticky residue like vinyl or duct tapes do when removed. Packaged individually in bags. Recommended shelf life is 2 years from batch date. Certification to A-A-59163 and MIL-I-46852 available.

Part Number T-SR-M025-16-XXX-20 tape is 1" / 25mm wide, 0.020" / .51mm thick, 36' / 10.9m long.

"XXX" in the part number is replaced by:
 "ROR" for Red Type I
 "RBK" for Black Type I
 "TOR" for Red Type II
 "TBK" for Black Type II

Add "-CT" to the part number for lot / batch Certificate of Conformity (\$10.00) or roll Certificate of Conformity (\$6.00 each)

Part Number T-SR-M038-24-XXX-20 tape is 1.5" / 38mm wide, 0.020" / .51mm thick, 36' / 10.9m long.

Other certifications available: DMS2186 Type II; HS5215; P5384;MMS 517-6 Type II; Safe Flight 59562-5; UL94;

FlameShield™ Products - Protecting industrial, marine & aviation hydraulic hoses, fuel & oil lines, cables and wiring from high heat, flame, molten metal splash, welding splatter, sparks, UV, Ozone, abrasion and contamination.