

MIL-I-46852-1I0010 / MIL-I-46852-1I0020 / MIL-I-46852-1I0030

MIL-I-46852-1I0040

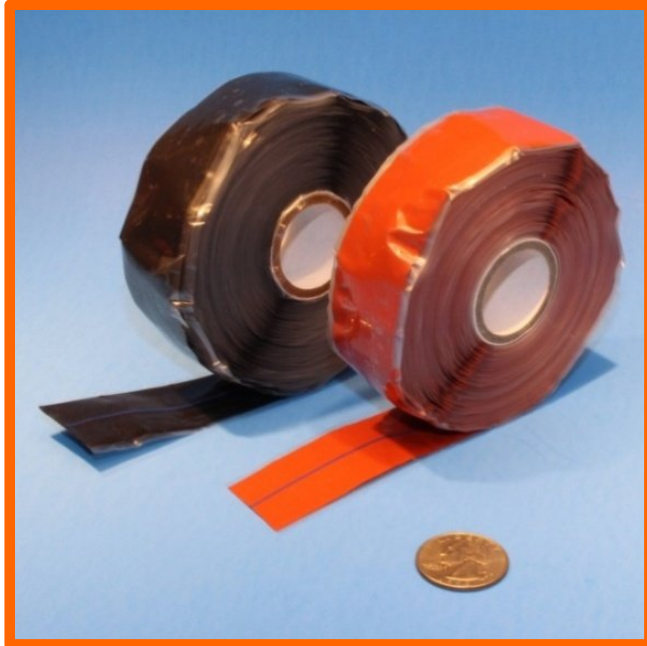
Class 1 - Type I

MIL-I-46852-1II0020 / MIL-I-46852-1II0030 / MIL-I-46852-1II0040

Class 1 - Type II

Silicone Rubber Self Fusing Electrical Insulating Tape

500°F / 260°C: FlameShield™ Self Binding / Self-Fusing / Self Amalgamating Tape -
High Temperature, Heat & Flame Resistant



- Self-bonds / self fuses / self amalgamating tape. No residue when removed. Starts fusing within minutes; fully bonded within hours. Excellent cold temperature performance. Low water absorption.
- Tested to:
 - ASTM D 149; provides minimum 400 V/mil. for .010" to .030" thick tape, 300 V/mil for .040" thick tape and 250 V/mil for .060" thick tape.
 - ASTM D 412; provides minimum 700 psi tensile strength and minimum 300% elongation.
 - ASTM D 2240; Durometer (Shore A); 55. Other test data available.
- Excellent for sealing ends of firesleeve: prevents sleeve from absorbing contamination and wicking liquids. Excellent for wrapping electrical & mechanical connections and splices. Makes clean and neat installations of cables, wires and hoses. Makes an instant separation bumper and provides vibration dampening.
- Meets Mil-I-46852, AA59163 and ABS 5334 specifications. Certificate of Conformity available.
- Cross Reference Equivalents Available to MOX 600R and 600T levelwrap series; 602-1, 603-1, 604-1, 605-1, 606-1, 607-1. McDonnell Douglas / Boeing DMS-2186 Type I & II, McDonnell Douglas Helicopter HS5215, General Dynamics P5384, Martin Marietta MMS 517-6 Type II, McDonnell Douglas P.S. 17115, ST0130RB0078 Type I, 3003M70P01, MS70T09-S, WS1363A, Premier Farnell 810112, Safe Flight 59562-5, PLYSIL3455, TYT200-1, 66N, 67N and various NATO / National Stock Numbers (NSN).
- Amalgamating time: Room temperature; 24 hours / at 120°C; 120 minutes / at 150°C; 35 minutes / at 200°C; 20 minutes / at 250°C; 15 minutes. Tested for short duration fluid resistance: Jet Fuel (JP5), Hydraulic Fluid (Skydrol 500B4), Mineral Oil (NATO 0142), Synthetic Oil (NATO 0156), MIL-C-87836 & Foran 141B cleaning fluids, MIL-A-8243 cooling fluid.

These tapes are guaranteed to meet specification for 1 year from date of manufacture providing tapes are stored dry at 21°C +/- 3°C or 70°F +/- 5°F. Standard tapes have an interleaved liner of polyethylene. Polyester liner available.

Type II tapes have a center guideline stripe to assist in making 50% overwraps. The triangular profile version tape allows for minimal ridge lines, providing wire and cable splices and joints with an almost totally smooth surface (prevents snagging when splice is pulled through obstructions).

**FlameShield™ MIL-I-46852 Specification
 High Temperature Silicone Self Fusing
 Compression/Stretch Electrical Insulating Tape**

**MIL-I-46852-1I0020 / MIL-I-46852-1II0020 / MIL-I-46852-1I0030 / MIL-I-46852-1II0030
 MIL-I-46852-1I0040 / MIL-I-46852-1II0040**

Class 1 – Type I and Class 1 - Type II

Part Number	Tape Width Inches	Thickness inches	Color / Type / Profile	Price Per Roll
MIL-I-46852-1I0020-RXX-0.50	½"	0.020"	Black or Red / Type I / Rectangular	\$ 29.37
MIL-I-46852-1II0020-TXX-0.50	½"	0.020"	Black or Red / Type II / Triangular	\$ 29.37
MIL-I-46852-1I0030-RXX-0.50	½"	0.030"	Black or Red / Type I / Rectangular	\$ 37.16
MIL-I-46852-1I0020-RBK-0.62	5/8"	0.020"	Black / Type I / Rectangular	\$ 30.17
MIL-I-46852-1I0020-RBK-0.75	¾"	0.020"	Black / Type I / Rectangular	\$ 31.96
MIL-I-46852-1I0010-RXX-1.00	1"	0.010"	Black or Red / Type I / Rectangular	\$ 29.37
MIL-I-46852-1II0020-TXX-1.00	1"	0.020"	Black or Red / Type II / Triangular	\$ 33.80
MIL-I-46852-1I0020-RXX-1.00	1"	0.020"	Black or Red / Type I / Rectangular	\$ 34.71
MIL-I-46852-1II0040-TXX-1.00	1"	0.040"	Black or Red / Type II / Triangular	\$ 37.91
MIL-I-46852-1I0040-RXX-1.00	1"	0.040"	Black or Red / Type I / Rectangular	\$ 39.64
MIL-I-46852-1I0020-RXX-1.50	1 ½"	0.020"	Black or Red / Type I / Rectangular	\$ 48.77
MIL-I-46852-1I0012-RXX-1.50	1 ½"	0.012"	Black or Red / Type I / Rectangular	\$ 38.47
MIL-I-46852-1I0020-RXX-2.00	2"	0.020"	Black or Red / Type I / Rectangular	\$ 57.13
MIL-I-46852-1II0020-TXX-2.00	2"	0.020"	Black or Red / Type II / Triangular	\$ 48.86

Guideline Color on Type II Triangular Tapes Only: .020" = blue / .030" = white / .040" = green
 Type II edge thickness is .008" +/- .001"

Please enquire for pricing on widths and thicknesses other than those listed above.

- Standard roll length is 36 feet / 12 Yards / 10.9 Metres; other lengths available.
- For the XX value (color code): OR = Oxide-Red, BK = Black. Other colors available.
- Certificate of Conformity: Add \$6.00 for individual roll CofC. Lot/Batch CofC \$25.00 per order line item.
- Test Report: Add \$75.00 per order line item.

Amalgamating time: Room temperature; 24 hours / at 120°C; 120 minutes / at 150°C; 35 minutes / at 200°C; 20 minutes / at 250°C; 15 minutes. Tested for short duration fluid resistance: Jet Fuel (JP5), Hydraulic Fluid (Skydrol 500B4), Mineral Oil (NATO 0142), Synthetic Oil (NATO 0156), MIL-C-87836 & Foran 141B cleaning fluids, MIL-A-8243 cooling fluid.

These tapes are guaranteed to meet specification for 1 year from date of manufacture providing tapes are stored dry at 21°C +/- 3°C or 70°F +/- 5°F. Standard tapes have an interleaved liner of polyethylene. Polyester liner available.

FlameShield™ MIL-I-46852 Specification Silicone Rubber Self Fusing Electrical Insulating Tape - Technical Data

Specifications for FlameShield™ Silicone Rubber Tape meeting MIL-I-46852 Class 1 – Type I and Type II			
Property	Standard	Nominal Test Result or Tolerance	Test Method
Thickness: 1" wide tape	.010" .020" .030" .040"	+/- .002"	N/A
Width	0.50", 0.625", 0.75", 1.00", 1.50", 2.00"	+/- .020"	N/A
Length	36 feet / 12 yards	+/- 6.00"	N/A
Color	Oxide-Red or Black	N/A	N/A
Guideline Color (Type II)	.020" Tapes: Blue .030" Tapes: White .040" Tapes: Green	N/A	N/A
Operating Temperature	-60°C to +260°C -76°C to +500°F	N/A	N/A
Brittle Temperature	-65°C / -85°F	N/A	N/A
Interleave Material	.002" thick Mylar	N/A	N/A
Tensile Strength	700 psi (minimum)	1100	ASTM D412 / D119
Dielectric Strength	.010" tape: 400 V/mil .020" tape: 400 V/mil .030" tape: 400 V/mil .040" tape: 300 V/mil	575	ASTM D-149
Dielectric Constant		2.94 @ 1Khz	ASTM D150
Volume Resistivity	1×10^{14} ohms/cm ³	3×10^{14}	ASTM D149
Elongation	300% (minimum)	700	ASTM D412 / D119
Tear Strength	85 psi (minimum)	146	ASTM D624
Bond Strength (1" Width)	2 lbs (minimum)	5.5	ASTM D2148
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%	FED-STD-601 Method 6251
Dissipation Factor		<0.0004 @ 1 Khz	ASTM D150
Hardness, durometer Shore A	55 - 65	55	ASTM D2148 / D2240
Flame Test		Pass	FAA 60 Sec Vertical