

Silwrap Triangular Guideline Silicone Rubber Tape

A masking or permanently resilient insulation seal for protection against severe environmental conditions.

SAMCO Silwrap self-fusing silicone tape is extruded from high performance silicone rubber. It is self adhering and self-fusing, curing into a solid rubber insulator at room temperature in 24 hours or less, resulting in an inseparable barrier that resists moisture, ozone and corona at temperatures up to 250°C. Its high thermal conductivity allows for rapid heat dissipation resulting in lower temperature rise on all types of connections.

SAMCO Silwrap is suitable for use wherever a tough, high temperature, permanently resilient insulation or seal is required. When properly installed, Silwrap provides a moisture free seal around terminations, connections and wire harness bundles. Offering low cost solutions to high reliability problem areas. The unique triangular cross sectional configuration of Silwrap allows for complete, smooth and transitional coverage over irregularly shaped surfaces.

Meets or exceeds requirements of MIL-1-46852B Type II (-45°C to 200°C continuous use, -65°C to 250°C intermittent use).

Properties	Test Method	Performance
Operating Temperature Range: Continuous Intermittent		-45°C to 200°C -65°C to 260°C
Specific Gravity	ASTM D792	0.20
Hardness, durometer, Shore A Room cured 24 hours Cured at 150°C 24 hours Cured at 250°C 24 hours	ASTM D2148	50 70 75
Tensile Strength, PSI, Minimum	ASTM D119	700
Elongation, %, Minimum	ASTM D119	300
Tear Strength, PPI, Minimum	ASTM D624 Die B	85
Bond Strength, Pounds, Minimum	MIL-I-46852	2
Adhesion, Inches Unwind, Maximum	ASTM D2148	3
Cold Brittle Point, °C, Maximum	ASTM D746	-65
Water Absorption, % Maximum By Weight	MIL-I-46852	3
Dielectric Strength, VPM, Minimum	MIL-I-46852	400
Dielectric Constant, 1 KHz	ASTM D150	2.95
Dissipation Factor, 1 KHz	ASTM D150	<0.0004
Volume Resistivity, Ohms/Cm, Minimum	MIL-I-46852	3 x 10 ¹⁴

Above values are typical performance data only for Silwrap Silicone Rubber Tape

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Installation Procedure

- 1** Thoroughly clean the area to be insulated by removing all oil, grease, grime and dirt. An electrical component or cable cleaner is recommended. Sharp particles of dirt beneath the tape increase the risk of tearing the tape during application.
- 2** Work with the entire roll of Silwrap when wrapping, unless the exact length of tape needed is known. It is always better to use a little too much tape than to use too little.
- 3** The release liner should be removed as the tape is installed. This will keep the tape clean and prevent premature and accidental adhesion to the tape itself.
- 4** To begin the taping process, wrap one full overlap of tape onto itself with minimal stretch. Keep in mind that Silwrap will adhere only to itself.
- 5** After the first wrap, stretch Silwrap to approximately three quarters of its normal width while half lapping. Overlap each layer of Silwrap by matching the edge of the tape to the **centre guideline of the previous layer**.
- 6** Continue the half-lap process until the end of the area to be insulated is reached. At this point, wrap one full turn of tape onto itself as in the beginning step, stretching the tape to approximately two thirds its normal width. This will ensure a good tight adhesion to the end of the tape.
- 7** When working with two or more branches, fill the "crotch" areas first, then follow the half-lap procedure down each leg and trunk of the cable or harness.
- 8** To accelerate the curing process, the application of heat from a conventional hot-air gun or oven may be applied (any heat will help but 200°C for ten minutes as a maximum).

Available in clear, black and red, nominally 1" or 25.4mm in width.

Delivery Generally Ex-Stock: 2-3 Days