



TAD & ASSOCIATES, INC.

heat tracing specialists



STRAPPING TAPES



Accessories

Description

Fiberglass tape is traditionally used to secure heat tracing to pipes, valves, flanges, pumps, instrumentation, etc. FG-1 fiberglass tape is a general purpose tape reinforced with glass-yarn filaments that gives the tape high tensile strength, low stretch and superior tack. It's excellent for freeze protection and low temperature process applications. FG-3 glass cloth tape is a glass cloth tape with a high-temperature thermosetting silicone adhesive. This adhesive provides an increased bond once applied in areas of high ambient/process temperatures. FG-3 should be used in medium-high process temperature applications. AL-1 aluminum tape is used to improve heat transfer between tracers and pipes/vessels while lowering cable sheath temperature. Aluminum tape is mandatory for use on all polyvinyl/polyethylene pipes & FRP vessels and is overall beneficial in conductance of heat in all heat tracing applications by ensuring a healthy mechanical bond.

Specifications

Tensile Strength (lbs/inch)	300(FG-1), 180(FG-3), 21(AL-1)
Overall Thickness (Mils)	6.0(FG-1), 7.0(FG-3), 3.4(AL-1)
Elongation	4.5%(FG-1), 5%(FG-3), 4%(AL-1)
Temperature Rating	185°F(FG-1), 400°F(FG-3), -40°F-250°F(AL-1)
Electrical Strength (Volts)	3,000 (FG-3)
Backing	Glass Filament, Glass Cloth, 2 Mil Dead Soft Aluminum
Adhesive	Rubber Resin, High-Temp Silicone, Acrylic
Adhesion (oz./inch)	55, 40, 45
Dimensions (Weight)	3/4" x 180' (.8 Lbs.), 1/2" x 108' (.3 Lbs.), 2" x 150' (1.5 Lbs.)

Note: For FG tapes, the amount of tape required to secure heat trace is determined by taking the pipe diameter and finding the circumference ($C = D \times \pi$) and adding 3" or >(avg.) of overlap. Divide your answer by 12 (12"/ft.) and multiply your answer times the length of pipe to be traced then divide by the number of feet of tape per roll. AL-1 tape should be applied lengthwise directly over the cable and pressed down around the edges to improve conduction.

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