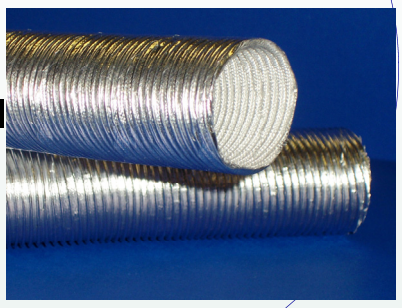
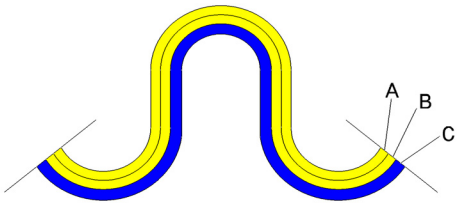
O-FLEX INC

O-FLEX AUTOMOTIVE

GAA$_m$ HEAT SHIELD TUBE



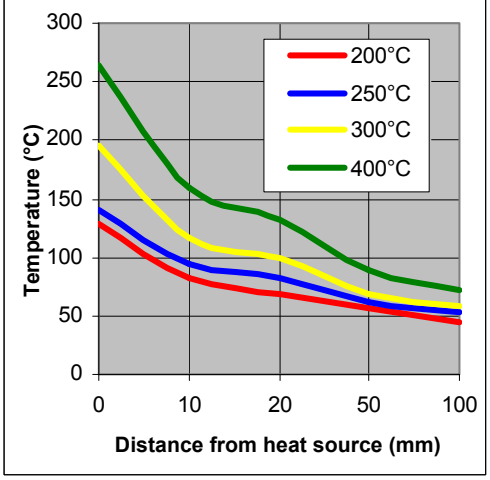
Purpose : The GAA$_m$ tube is applicable for thermal protection of critical components in high temperature environments. It serves as a flame resistant insulated cover for: hoses, fluid lines, plastic tubes, electrical harnesses, etc.
Characteristics : light weight, flexible, insulation, anti-corrosion
Available Size : Ø10.0 — Ø65 mm (ID)
Bend "R" : 1.7 x Diameter with no cracking
Compression Strength : 185N at 3mm



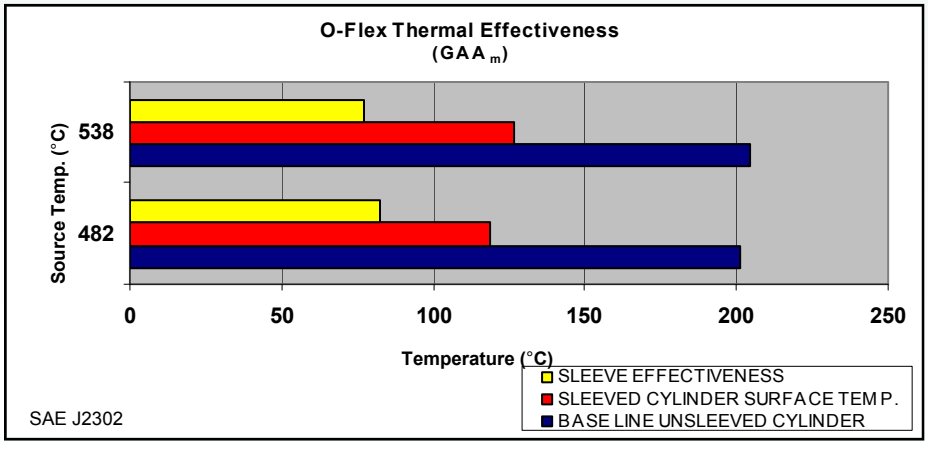
A	Aluminum	55μ thickness
B	Aluminum	38μ thickness
C	Glass Cloth	177μ thickness

Insulation Performance

Heater Source Temperature	Inside Surface Temperature (Diameter of tube @ 20mm)
200°C / 392°F	68°C / 154°F
250°C / 482°F	78°C / 172°F
300°C / 572°F	92°C / 198°F
400°C / 752°F	124°C / 255°F



Test Performed	Test Method	Test Results
Peel Strength	ASTM D-1876	Pass
Thermal Endurance	Oven Soak 24hrs at 175°C	No sign of product delamination or distortion
Flammability	ASTM D-4723 / FMVSS 302	Pass
Bend Test	1.7 x Diameter	No sign of cracking or deformation
Fluid Resistance	30 minute immersion • gasoline • brake fluid • diesel fuel (60 min) • antifreeze solution • motor oil • transmission fluid • power steering fluid • distilled water • washer fluid	No sign of product degradation or delamination of coating All passed
SAE J2302	Thermal Efficiency	Results - See chart below



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