MILCUT

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Aluminized Fiberglass Cloth

Description:

This material is a heavy weight, plain weave fiberglass fabric that is heat-treated and laminated one side with aluminum foil. Widely used for the fabrication of insulation pads, this fabric is excellent for use in a variety of thermal insulation products such as pipe wrapping, turbine blankets, engine exhaust covers, and insulation blankets.

Typical Physical Properties

Physical Property	Test Method	Typical Results
Base Cloth		Fiberglass
Finish		Aluminum Foil
Weight		21 oz./sq yd (± 10%)
Thickness, Nominal	ASTM D-1777	0.027 in.
Tensile Strength	FED 191/5102	Warp: 200 lb/in avg Fill: 100 lb/in avg
Tear Strength	FED 191/5136	Warp: 35 lbs min avg Fill: 35 lbs min avg
Burst Strength	ASTM D-774	500 psi
Flame Resistance *Char Length, inches max.* *Afterglow* *Flame Out*	FED 191/5903.2	 1 <1 second <1 second
Temperature Limit *Basic Fabric* *Foil Service Temperature*	FED Spec HHB-100B	 1000°F (538°C) 500°F (260°C)
Coating		Aluminum Foil to provide vapor retarder and a barrier to water and oil

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Temperature (F°)	Thermal Conductivity (BTU/in hr ft^2)
200	0.4731
300	0.5399
400	0.6044
500	0.6697
600	0.7338
700	0.7972
800	0.8622

Material meets MIL-C-20079 Type 1, Class 10, MIL-I-24244B, Coast Guard Specification 164-009 for fire-retardant material and NRC Guide 1.3

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