

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 ($\pm 10\%$) |
| 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 <i>Char Length, inches max.</i> <i>Afterglow</i> <i>Flame Out</i> | FED 191/5903.2 | 1 <1 second <1 second |
| Temperature Limit <i>Basic Fabric</i> <i>Foil Service Temperature</i> | 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 |

| 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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