

## 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

| Specification   | 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<br>Fill: 100 lb/in avg                             |
| Tear Strength   | FED 191/5136      | Warp: 35 lbs min avg<br>Fill: 35 lbs min avg                           |
| Burst Strength  | ASTM D-774        | 500 psi  |
| Flame Resistance<br><i>Char Length, inches max.</i><br><i>Afterglow</i><br><i>Flame Out</i> | FED 191/5903.2    | 1<br><1 second<br><1 second  |
| Temperature Limit<br><i>Basic Fabric</i><br><i>Foil Service Temperature</i>                 | FED Spec HHB-100B | 1000°F (538°C)<br>500°F (260°C)  |
| Coating   |                   | Aluminum Foil to provide vapor retarder and a barrier to water and oil |

| <b>Temperature (F°)</b> | <b>Thermal Conductivity (BTU/in hr ft<sup>2</sup>)</b> |
|-------------------------|--|
| 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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