



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

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## AVSIL<sup>®</sup> ALUMINIZED SILICA FABRICS

### Product Description

**AVSIL<sup>®</sup> ALM84CH and ALM188CH** are high temperature “aluminized” silica textiles. An Aluminized Mylar film is applied to one side of the fabrics to produce the reflective “aluminized” appearance. **AVSIL<sup>®</sup> ALM84CH and ALM188CH** have all the high temperature capabilities of standard silica fabrics and the added qualities of thermal reflectivity, outstanding fabrication characteristics and high abrasion resistance. **AVSIL<sup>®</sup> ALM84CH and ALM188CH** Silica Aluminized Textiles can be used or configured as **shrouds, reflective insulation, protective screens/covers, and furnace curtains**. **AVSIL<sup>®</sup> Silica Fabrics** are used extensively in the Power Generation, Refinery, Construction, Shipbuilding, and Metal Processing Industries.

### Features

- Resists Penetration of Weld “Slag” and Passes Welding “Burn Through” Test
- Fireproof (Base Fabric)
- Aluminized Mylar Film Applied to One Side
- Thermal Reflectivity
- Outstanding Fabrication Characteristics
- High Strength and Abrasion Resistance
- Protects Equipment and Personnel in the Toughest Welding Applications
- Protects Against Hot Work Fires
- Resists Permeation of Fluids/Gases
- Barrier Against Radiant Heat
- Ease of Fabrication into blankets, curtains, or other textile parts.

### Technical Data Properties

	<b>ALM84CH</b>	<b>ALM188CH</b>
Nominal Weight: oz./yd <sup>2</sup> (grams/m <sup>2</sup> )	19 (644)	37 (1254)
Nominal Thickness: inches (mm)	0.027 (0.69)	0.046 (1.17)
Base Fabric Weave Construction	8 Harness Satin	12 Harness Satin
Base Fabric Silica Content (%)	≥95	≥95
Base Fabric Melting Temperature: °F (°C)	3000 (1649)	3000 (1649)

### Notes:

1. Roll length is 50 yards, and nominal roll widths are 34 or 58 inches. Other roll lengths are available.
2. Mylar film is applied to one side of fabric. Mylar film begins to decompose at 450°F.
3. AVSIL<sup>®</sup> fabrics are amorphous silica textiles and contain no asbestos or ceramic fibers.
4. AVSIL<sup>®</sup> silica fabrics can be used for thermal applications up to 1800°F (982°C).

AVS Industries, LLC cannot predict all of the potential applications for which customers may attempt to use the AVSIL<sup>®</sup> Aluminized Silica Products. AVSIL<sup>®</sup> Aluminized Silica Products will have varying degrees of effectiveness for each potential application depending on the maximum temperature attained, the length of use, and the amount of temperature fluctuation. If the customer has any questions regarding the use of AVSIL<sup>®</sup> Aluminized Silica Products in a particular application, please contact AVS Industries, LLC at (302) 221-1720 and we will provide a sample of the AVSIL<sup>®</sup> Aluminized Silica Products for testing. This product is not warranted against injuries or damages of any kind caused by uses for which this product was not designed, intended, or tested by AVS Industries, LLC.