



# AVSiI Needled Insulation



## PRODUCT DESCRIPTION

**AVSiI** Needled Insulation, made from amorphous silica, is ideal for a wide range of critical, high temperature aerospace, automotive and industrial applications. **AVSiI** Needled Insulation is available in Un-shrunk (U) and Shrunk (S) versions. Those versions come in five thicknesses. It contains no shot (small spheres) which is important in certain insulation applications. Refractory ceramic insulations (RCF) have shot.

**AVSiI** is designed to withstand temperatures of up to 2000°F (1090°C). It is comprised of non-respirable, 9-micron filament fibers that are mechanically bonded, containing no added resins or adhesives. **AVSiI** Needled Insulation is environmentally-friendly since it contains no harmful refractory ceramic fibers (RCF).

**AVSiI** Needled Insulation flexibility enables the product to be easily cut and fabricated into intricate design configurations. Excellent thermal strength enhances **AVSiI** high product value-in-use.

## POTENTIAL PRODUCT APPLICATIONS

- Thermal Insulation Pads
- Removable Insulation Covers
- Thermal Curtains
- Insulation for Furnaces
- Stress Relieving Blankets
- Aluminum Rolling Mills
- Glass Processing
- Turbine Insulation
- Engine Exhaust Insulation
- Engine Compartment Insulation

AVSIL NEEDED INSULATION (UNSHRUNK)					
CODE	THICKNESS	DENSITY	WIDTH	ROLL LENGTH	AREA
AB25U	1/4 in. (6.35 mm)	8 lb/ft. <sup>3</sup> (130 kg/m <sup>3</sup> )	36 in. (91.4 cm)	118 ft. (36 m)	354 ft. <sup>2</sup> (32.9 m <sup>2</sup> )
AB30U	5/16 in. (8 mm)	8 lb/ft. <sup>3</sup> (130kg/m <sup>3</sup> )	36 in. (91.4 cm)	89 ft. (27.1 m)	237 ft. <sup>2</sup> (27.8 m <sup>2</sup> )
AB38U	3/8 in. (9.525 mm)	8 lb/ft. <sup>3</sup> (130 kg/m <sup>3</sup> )	36 in. (91.4 cm)	72 ft. (22 m)	216 ft. <sup>2</sup> (20 m <sup>2</sup> )
AB50U	1/2 in. (12.7 mm)	8 lb/ft. <sup>3</sup> (130 kg/m <sup>3</sup> )	36 in. (91.4 cm)	59 ft. (18 m)	177 ft. <sup>2</sup> (16.5 m <sup>2</sup> )
AB100U	1 in. (25.4 mm)	8 lb/ft. <sup>3</sup> (130 kg/m <sup>3</sup> )	36 in. (91.4 cm)	31 ft. (9.5 m)	93 ft. <sup>2</sup> (8.6 m <sup>2</sup> )
AVSIL NEEDED INSULATION (SHRUNK)					
CODE	THICKNESS	DENSITY	WIDTH	ROLL LENGTH	AREA
AB25S	1/4 in. (6.35 mm)	8 lb/ft. <sup>3</sup> (130kg/m <sup>3</sup> )	36 in. (91.4 cm)	118 ft. (36 m)	354 ft. <sup>2</sup> (32.9 m <sup>2</sup> )
AB30S	5/16 in. (8 mm)	8 lb/ft. <sup>3</sup> (130kg/m <sup>3</sup> )	36 in. (91.4 cm)	89 ft. (27.1 m)	237 ft. <sup>2</sup> (27.8 m <sup>2</sup> )
AB38S	3/8 in. (9.525 mm)	8 lb/ft. <sup>3</sup> (130kg/m <sup>3</sup> )	36 in. (91.4 cm)	72 ft. (22 m)	216 ft. <sup>2</sup> (20 m <sup>2</sup> )
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AB100S	1 in. (25.4 mm)	8 lb/ft. <sup>3</sup> (130kg/m <sup>3</sup> )	36 in. (91.4 cm)	31 ft. (9.5 m)	93 ft. <sup>2</sup> (8.6 m <sup>2</sup> )

AVS Industries cannot predict all of the potential applications for which customers may attempt to use the Silica Products. 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 Silica Products in a particular application, please contact AVS Industries at 302.221.1720 and we will provide a sample of the 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.