



WHEN THE **HEAT** IS ON, KEEP YOUR COOL WITH **AVS!**

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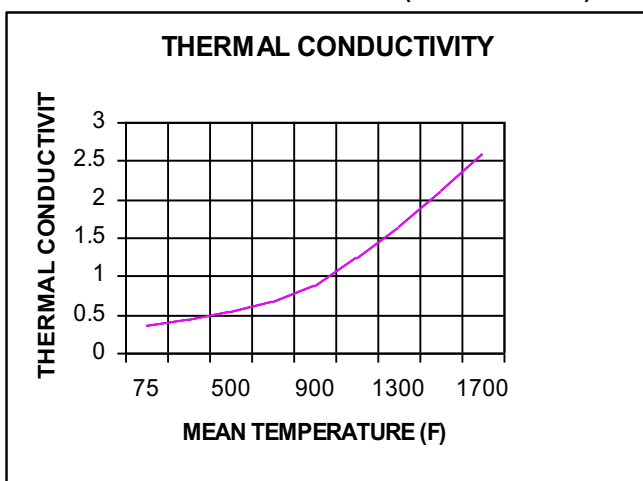
AVSi[®] PRESHRUNK SILICA NEEDED INSULATION

Made from amorphous silica, **AVSi[®] Needled Insulation** is ideal for a wide range of critical, high temperature applications. It comes in three thicknesses and is shrunk (Areal Shrinkage <4%). Our **AVSi[®] Needled Insulation** contains no shot (small spheres) and is designed to withstand temperatures up to 2000°F (1093°C). **AVSi[®] Needled Insulation** is comprised of non-respirable, 9-micron filament fibers that are mechanically bonded and contain no added resins or adhesives. Since it contains no harmful refractory ceramic fibers (RCF), **AVSi[®] Needled Insulation** is environmentally-friendly. It is extensively used in the Aerospace, Automotive and Industrial industries. Potential applications include: thermal insulation pads, removable insulation covers, thermal curtains, insulation for furnaces, stress relieving blankets, aluminum rolling mills, glass processing, turbine insulation, engine exhaust insulation, and engine compartment insulation.

ROLL PROPERTIES (SHRUNK INSULATION)

Product	Thickness		Density		Width		Roll Length		Area	
	inches	mm	lb/ft ³	kg/m ³	inches	cm	feet	meters	ft ²	m ²
AB25S	0.250	6.35	8	128	36	91.4	116	35.4	350	32.5
AB50S	0.500	12.7	8	128	36	91.4	59	18	175	16.3
AB100S	1.00	25.4	8	128	36	91.4	33	10	100	9.3

THERMAL CONDUCTIVITY
THERMAL CONDUCTIVITY (BTU-in/hr-ft²-°F)



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Temperature °F	Apparent Thermal Conductivity*	
	Btu-in/hr-ft ² -°F	W/m-°K
75 (24°C)	0.37	0.053
300 (149°C)	0.44	0.064
500 (260°C)	0.54	0.077
700 (371°C)	0.67	0.096
900 (482°C)	0.89	0.129
1100 (593°C)	1.23	0.178
1300 (704°C)	1.66	0.240
1500 (816°C)	2.13	0.309
1700 (927°C)	2.60	0.379

*Typical Values

AVS Industries, LLC cannot predict all of the potential applications for which customers may attempt to use the **AVSi[®] Silica Needed Insulation**. **AVSi[®] Silica Needed Insulation** 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 **AVSi[®] Silica Needed Insulation** in a particular application, please contact AVS Industries, LLC at (302) 221-1720 and we will provide a sample of **AVSi[®] Silica Needed Insulation** 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.