



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

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AVSiil® PRESHRUNK SILICA NEEDED INSULATION

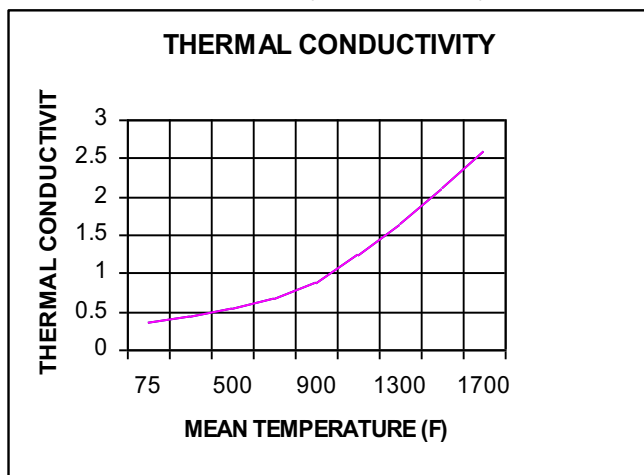
AVSiil® Preshrunk Silica Needled Insulation is manufactured from amorphous silica fibers and is typically used in a wide range of critical, high temperature aerospace, automotive, and industrial applications. AVSiil® Preshrunk Silica Needled Insulation is designed to withstand temperatures of up to 2000°F (1093°C), and is comprised of non-respirable, 9-micron filament fibers that are mechanically bonded, containing no added resins or adhesives. The nominal density of AVSiil® Preshrunk Silica Needled Insulation is 8 lb./ft³. The areal shrinkage is less than 4.0 percent. AVSiil® Preshrunk Silica Needled Insulation contains no shot and is environmentally-friendly since it contains no harmful refractory ceramic fibers (RCF). It can easily be fabricated into textile parts due to handling and strength properties.

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	65	20	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 AVSiil® Silica Needled Insulation. AVSiil® Silica Needled 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 AVSiil® Silica Needled Insulation in a particular application, please contact AVS Industries, LLC at (302) 221-1720 and we will provide a sample of AVSiil® Silica Needled 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.