



## **AMS SILICA MAT**

**AMS Silica Mat** is a nonwoven insulation material for use in critical high temperature thermal applications. Silica Mat will withstand temperatures of up to 2000°F (1090° C). The fibers are needled, mechanically bonded and contain no additional resins or adhesives. The structure of the material allows for conformability to irregular surfaces and fabricated to intricate configurations.

### PRODUCT CHARACTERISTICS

100% silica content  
 Temperatures to 2000oF (1090oC)  
 Non-respirable  
 Filament diameter - 9 microns  
 Low Thermal Conductivity  
 No-alkaline (<0.01%)  
 Low chlorides and fluorides  
 Meets NRC 1.36 section C  
 No shot content  
 Negligible moisture absorption  
 Excellent chemical resistance

### APPLICATIONS

High temperature thermal insulation  
 Engine exhaust systems  
 Stress relief blankets  
 Turbine insulation blankets  
 Industrial furnaces

### THERMAL CONDUCTIVITY (for 1/4")

600 °F (315°C)	0.66 BTUin/hr- ft <sup>2o</sup> F
800°F (427°C)	1.00 BTUin/hr- ft <sup>2o</sup> F
1000°F (538°C)	1.37 BTUin/hr- ft <sup>2o</sup> F
1200°F (649°C)	1.87 BTUin/hr- ft <sup>2o</sup> F
1400°F (760°C)	2.43 BTUin/hr- ft <sup>2o</sup> F
1600eF (871°C)	3.19 BTUin/hr- ft <sup>2o</sup> F
1800°F (982°C)	3.90BTUin/hr- ft <sup>2o</sup> F

### ROLL PROPERTIES

THICKNESS	DENSITY (lb.ft <sup>3</sup> )	WIDTH x LENGTH	SF/ROLL	LB/ROLL
1/4"	7.5	39" x 150'	487.5	76.2
1/2"	7.5	39" x 75'	243.75	76.2
3/4"	7.5	39" x 45'	146.25	68.6
1"	7.5	39" x 45'	146.25	91.4

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