

## Mid-Mountain Materials CERMEXA® MT1800 Needled Silica Mat

Category : Ceramic , Glass , Glass Fiber , Oxide , Silicon Oxide , Other Engineering Material , Composite Fibers

### Material Notes:

CERMEXA® MT1800 Needled Silica Blanket is a binderless material comprised of high purity, amorphous silica fibers. In demanding applications, the abrasion and vibration resistance of this mat makes this material superior to other products manufactured from shot-containing fibers. The complete absence of shot and organic binders make this product superior in performance in severe environments where vibration can often degrade shot containing materials. The amorphous silica fibers that make up CERMEXA® MT1800 mat are unaffected by most chemicals, except strong alkalis, hydrofluoric acid or sodium. Inherent to the chemistry, the silica fibers will have a tendency to shrink on initial exposure to elevated temperatures. For most industrial applications, this does not pose a problem. However, in applications where dimensional stability is critical (at elevated temperatures), CERMEXA® MT1800 is available in a pre-shrunk (fired) version. Information provided by Mid-Mountain Materials

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mid-Mountain-Materials-CERMEX-MT1800-Needled-Silica-Mat.php](http://www.lookpolymers.com/polymer_Mid-Mountain-Materials-CERMEX-MT1800-Needled-Silica-Mat.php)

Physical Properties	Metric	English	Comments
Density	0.136 - 0.152 g/cc	0.00492 - 0.00550 lb/in <sup>3</sup>	
Filament Diameter	6.0 - 9.0 Åµm	6.0 - 9.0 Åµm	
Thickness	6350 microns	250 mil	
	12700 microns	500 mil	
	25400 microns	1000 mil	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0648 W/m-K	0.450 BTU-in/hr-ft <sup>2</sup> -Å°F	
	@Temperature 260 Å°C	@Temperature 500 Å°F	
	0.112 W/m-K	0.777 BTU-in/hr-ft <sup>2</sup> -Å°F	
	@Temperature 538 Å°C	@Temperature 1000 Å°F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft <sup>2</sup> -Å°F	
	@Temperature 816 Å°C	@Temperature 1500 Å°F	
Thermal Conductivity	0.278 W/m-K	1.93 BTU-in/hr-ft <sup>2</sup> -Å°F	
	@Temperature 982 Å°C	@Temperature 1800 Å°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	982 Â°C	1800 Â°F	Continuous
	1260 Â°C	2300 Â°F	Intermittent

Component Elements Properties	Metric	English	Comments
SiO2	>= 96 %	>= 96 %	

Descriptive Properties	Value	Comments
Roll Length (ft)	116	1/4" (350 ft<sup>2</sup>/roll)
	33	1" (100 ft<sup>2</sup>/roll)
	58	1/2" (175 ft<sup>2</sup>/roll)
Shot Content (%)	None	
Width (in)	36	

## Contact Songhan Plastic Technology Co.,Ltd.

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