



## THE FINAL BARRIER AGAINST ABRASION, CHEMICALS AND HEAT

### CERMEX® MT1800 NEEDED SILICA MAT

CERMEX® MT1800 NEEDED SILICA MAT is a binderless material comprised of high purity, 96% amorphous silica fibers. The absence of shot and organic binders make this a superior product in applications where vibration and abrasion can degrade materials that do contain shot. In addition, CERMEX® MT1800 SILICA MAT is unaffected by most chemicals, except strong alkalis, hydrofluoric acid or sodium. In applications where dimensional stability is critical at elevated temperatures, a pre-shrunk version of CERMEX® MT1800 is available.



#### AVERAGE PHYSICAL PROPERTIES

Material	96% Amorphous Silica		
Construction	Needled and felted blanket/mat		
	.250, .500, 1.00 (+/- .125) • 6.35, 12.75, 25		
Temperature Rating			
Continuous use	1800°F • 982°C		
Intermittent	2300°F • 1260°C		
Melting Point	3100°F • 1704°C		
Filament diameter, micron	6 - 9		
Shot Content	0		
Thermal Conductivity, BTU-in/hr/sf	0.45 @ 500°F • 260°C		
	0.78 @ 1000°F • 538°C		
	1.39 @ 1500°F • 816°C		
	1.93 @ 1800°F • 982°C		
Width, inches	36 (-1/2, +1)		
Thickness, inches • mm, nominal	1/4 • 6.35	1/2 • 12.7	1 • 25
Density, lbs/ft³	8.5	9.0	9.5
Packaging, SF/roll	350	175	100

Tolerance is +/- 10% unless otherwise stated.

The technical data presented herein are indicative of representative properties and are intended as a specification guide only. No warranties are expressed or implied as application conditions are beyond our control.