

Zircar Refractory Composites SB-2000 SILICA BLANKET

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

ZIRCAR Silica Blanket Type SB-2000 is a high temperature insulation blanket made of mechanically interlocked continuous filament amorphous silica fibers with useful properties to temperatures of 1100°C (2012°F). SB-2000 is a strong needled blanket with very good handling properties. It is virtually shot free and has high resistance to attack by most chemicals. Exceptions include strong bases and hydrofluoric acid. This blanket exhibits thermal shock immunity, thermal conductivity and heat storage in the range of refractory ceramic fiber (RCF) blanket and is useful in many applications where RCF is not desired. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-SB-2000-SILICA-BLANKET.php

Physical Properties	Metric	English	Comments
Density	0.140 - 0.160 g/cc	0.00506 - 0.00578 lb/in ³	
Filament Diameter	6.0 - 9.0 µm	6.0 - 9.0 µm	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0450 W/m-K	0.312 BTU-in/hr-ft ² -°F	1 in. blanket, 9.98 pcf; ASTM C177
	@Temperature 92.0 °C	@Temperature 198 °F	
	0.0760 W/m-K	0.527 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 601 °F	1 in. blanket, 9.98 pcf; ASTM C177
	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	1 in. blanket, 9.98 pcf; ASTM C177
	@Temperature 649 °C	@Temperature 1200 °F	
Melting Point	1698 °C	3088 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	
Shrinkage	6.00 %	6.00 %	
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	
	8.00 %	8.00 %	
	@Temperature 980 °C, Time 86400 sec	@Temperature 1800 °F, Time 24.0 hour	
	12.5 %	12.5 %	
	@Temperature 1093 °C, Time 86400 sec	@Temperature 1999 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	0.71 %	0.71 %	
B2O3	0.16 %	0.16 %	
CaO	0.23 %	0.23 %	
MgO	0.17 %	0.17 %	
Other	<= 0.080 %	<= 0.080 %	
SiO2	97.85 %	97.85 %	
TiO2	0.80 %	0.80 %	

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