

Zircar Refractory Composites RS-B ALUMINA-SILICA MOLDABLE

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

ZIRCAR Alumina-Silica Insulating Blanket Type RS-B Moldable is composed of long, high strength ceramic fibers, with an inorganic alumina binder/rigidizing agent. It is a wet blanket that is shipped rolled up and sealed in a plastic bag to preserve its moldability. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-B-ALUMINA-SILICA-MOLDABLE.php

Physical Properties	Metric	English	Comments
Density	0.300 g/cc	0.0108 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1.20 MPa	174 psi	
Compressive Yield Strength	0.0700 MPa	10.2 psi	at 10% Compression

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	parallel to thickness; ASTM C177
	@Temperature 200 °C	@Temperature 392 °F	
	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	parallel to thickness; ASTM C177
	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	parallel to thickness; ASTM C177
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	900 °C	1650 °F	
Shrinkage	0.000 %	0.000 %	Drying perpendicular to thickness
	@Temperature 75.0 °C	@Temperature 167 °F	
	3.00 %	3.00 %	Drying parallel to thickness
	@Temperature 75.0 °C	@Temperature 167 °F	
	2.00 %	2.00 %	perpendicular to thickness
	@Temperature 800 °C, Time 86400 sec	@Temperature 1470 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	33 %	33 %	

Component Elements Properties	Metric	English	Comments
SiO2	41 %	41 %	

Descriptive Properties	Value	Comments
Color	White	

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