

Zircar Ceramics ECO-27B Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

This utility grade board is produced with or without organic binder. Useful to temperatures of 1260°C (2300°F) ECO-27 offers exceptional strength and durability. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ECO-27B-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.410 g/cc	0.0148 lb/in ³	
Loss On Ignition	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00115 GPa	0.167 ksi	As Received, Parallel to thickness
	0.000820 GPa	0.119 ksi	Parallel to Thickness
	@Temperature 1260 °C, Time 86400 sec	@Temperature 2300 °F, Time 24.0 hour	
Compressive Yield Strength	0.150 MPa	21.8 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.19 J/g-°C	0.284 BTU/lb-°F	
	@Temperature 1090 °C	@Temperature 2000 °F	
Thermal Conductivity	0.0550 W/m-K	0.382 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 200 °C	@Temperature 392 °F	
	0.130 W/m-K	0.902 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.500 %	0.500 %	Perpendicular to Thickness
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	
	2.50 %	2.50 %	Parallel to Thickness

Thermal Properties	Metric @Temperature 1000 °C, Time 86400 sec	English @Temperature 1830 °F, Time 24.0 hour	Comments
	3.50 %	3.50 %	Perpendicular to Thickness
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	35 %	35 %	
SiO2	64 %	64 %	

Descriptive Properties	Value	Comments
Color	Off White	

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