

Zircar Ceramics SALI-2 Alumina Insulation

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

SALI-2 is a premium grade rigid insulation board used as hotface insulation or a precision machined furnace fixtures. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-SALI-2-Alumina-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.510 g/cc	0.0184 lb/in ³	
Open Porosity	84 %	84 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	2.14 MPa	310 psi	Parallel to thickness
Compressive Yield Strength	1.04 MPa	151 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	6.20 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.44 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 1100 °C	@Temperature 68.0 - 2010 °F	
Specific Heat Capacity	1.05 J/g-°C	0.250 BTU/lb-°F	
Thermal Conductivity	0.150 W/m-K	1.04 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 250 °C	@Temperature 482 °F	
	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 800 °C	@Temperature 1470 °F	
	0.390 W/m-K	2.71 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 1350 °C	@Temperature 2460 °F	
Melting Point	1870 °C	3400 °F	
Maximum Service Temperature, Air	1800 °C	3270 °F	Continuous
	1830 °C	3330 °F	Intermittent
Softening Point	1340 °C	2440 °F	Temperature sample yields under load of push rod in CTE determination
Shrinkage			SAG/Distortion, 6in. (152mm) x 1in. (25.4mm) x 1in. (25.4mm), 5in.

Thermal Properties	2.00 % Metric	2.00 % English	(127mm) Span, % after 24 hrs. at 1000 °C Comments
	0.000 % @Temperature 1700 °C, Time 86400 sec	0.000 % @Temperature 3090 °F, Time 24.0 hour	Perpendicular to Thickness
	3.00 % @Temperature 1800 °C, Time 86400 sec	3.00 % @Temperature 3270 °F, Time 24.0 hour	Perpendicular to Thickness

Component Elements Properties	Metric	English	Comments
Al2O3	80 %	80 %	
SiO2	20 %	20 %	

Descriptive Properties	Value	Comments
Bond	Silica	
Color	White	

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