

Zircar Refractory Composites ZIRCAL-45 Refractory Board

Category : Ceramic

Material Notes:

Type ZIRCAL-45 Refractory Board is a self supporting, high strength, rigid refractory product fabricated from calcium silicate, inert fillers and reinforcing agents. Its high structural strength combined with high thermal insulating value make it ideal for many fireproofing and heat processing equipment applications up to 650°C(1202oF). ZIRCAL-45 is highly damage resistant, non-corroding, and extremely water-resistant. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-ZIRCAL-45-Refractory-Board.php

Physical Properties	Metric	English	Comments
Density	0.760 g/cc	0.0275 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00560 GPa	0.812 ksi	parallel to thickness
Compressive Yield Strength	70.0 MPa	10200 psi	at 5% deformation, parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	3.10 $\mu\text{m}/\text{m}\cdot\text{°C}$	1.72 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 700 °C	@Temperature 68.0 - 1290 °F	
	5.50 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.06 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.120 W/m-K	0.833 BTU-in/hr-ft ² -°F	parallel to thickness
	@Temperature 200 °C	@Temperature 392 °F	
	0.120 W/m-K	0.833 BTU-in/hr-ft ² -°F	parallel to thickness
	@Temperature 400 °C	@Temperature 752 °F	
	0.120 W/m-K	0.833 BTU-in/hr-ft ² -°F	parallel to thickness
	@Temperature 600 °C	@Temperature 1110 °F	
Maximum Service Temperature, Air	650 °C	1200 °F	
Shrinkage	0.400 %	0.400 %	Linear reheat (perpendicular to thickness)
	@Temperature 650 °C, Time 43200 sec	@Temperature 1200 °F, Time 12.0 hour	

Component Elements Properties	Metric	English	Comments
Other	<= 5.0 %	<= 5.0 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.80e+7 ohm-cm	9.80e+7 ohm-cm	ASTM D257
Dielectric Strength	1.77 kV/mm	45.0 kV/in	ASTM D495

Processing Properties	Metric	English	Comments
Moisture Content	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
CaSiO3, %	95	

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