

Zircar Ceramics ECO-20AA Alumina Insulation

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

ECO-20AA is most commonly utilized as hotface insulation in furnaces with hydrogen rich atmospheres such as bright annealing furnaces. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ECO-20AA-Alumina-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.310 g/cc	0.0112 lb/in ³	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.310 MPa	45.0 psi	Parallel to thickness
Compressive Yield Strength	0.110 MPa	16.0 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.05 J/g-°C	0.250 BTU/lb-°F	
Thermal Conductivity	0.0900 W/m-K @Temperature 400 °C	0.625 BTU-in/hr-ft ² -°F @Temperature 752 °F	parallel to thickness; ASTM C177-76
	0.210 W/m-K @Temperature 1200 °C	1.46 BTU-in/hr-ft ² -°F @Temperature 2190 °F	Parallel to Thickness; ASTM C177-76
Maximum Service Temperature, Air	1600 °C	2910 °F	
Shrinkage	4.00 %	4.00 %	Sag/Distortion, 1 in. x 1 in. beam on 5 in. span, % after 4 hrs @ 1540°C (2740°F)
	1.50 % @Temperature 1650 °C, Time 3600 sec	1.50 % @Temperature 3000 °F, Time 1.00 hour	Perpendicular to Thickness

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	98 %	98 %	
SiO ₂	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Color	White	

Descriptive Properties	Value	Comments
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