

Zircar Ceramics ASQ Castertip

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

14 pcf density refractory ceramic fiber "soft tip". Alumina bonding of shot free fiber results in extreme performance in manufacture of the finest grades of medical, food and packaging foils. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ASQ-Castertip.php

Physical Properties	Metric	English	Comments
Bulk Density	0.190 - 0.260 g/cc	0.00686 - 0.00939 lb/in ³	
Loss On Ignition	3.00 % @Temperature 760 °C, Time 86400 sec	3.00 % @Temperature 1400 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.370 MPa	53.7 psi	after 24 hrs at 1200°C, as Received, Parallel to Thickness
	0.460 MPa	66.7 psi	As received, Parallel to Thickness
	0.480 MPa	69.6 psi	after 24 hrs at 1000°C, as Received, Parallel to Thickness
	0.500 MPa	72.5 psi	after 24 hrs at 760°C, as Received, Parallel to Thickness
	0.110 MPa	16.0 psi	as Received, Parallel to Thickness
Compressive Strength	0.120 MPa	17.4 psi	after 24 hrs at 760°C, as Received, Parallel to Thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.110 W/m-K @Temperature 600 °C	0.763 BTU-in/hr-ft ² -°F @Temperature 1110 °F	parallel to thickness
	0.160 W/m-K @Temperature 800 °C	1.11 BTU-in/hr-ft ² -°F @Temperature 1470 °F	Parallel to Thickness
	0.270 W/m-K @Temperature 1100 °C	1.87 BTU-in/hr-ft ² -°F @Temperature 2010 °F	parallel to thickness
Maximum Service Temperature, Air	1260 °C	2300 °F	
	2.00 %	2.00 %	

Shrinkage Thermal Properties	Metric @Temperature 760 - 1000 °C, Time 86400 sec	English @Temperature 1400 - 1800 °F, Time 24.0 hour	Perpendicular to Thickness Comments
	3.0 %	3.0 %	Perpendicular to Thickness
	@Temperature 1100 °C, Time 86400 sec	@Temperature 2010 °F, Time 24.0 hour	
	5.00 %	5.00 %	Perpendicular to Thickness
	@Temperature 1200 °C, Time 86400 sec	@Temperature 2190 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	58 %	58 %	
SiO2	42 %	42 %	

Descriptive Properties	Value	Comments
Binder	Alumina	
Color	White	

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