

Zircar Ceramics ZIRALCAST 95 Alumina Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Hydraulically setting castable refractory containing high purity fused alumina "bubbles". This low density castable can be used like concrete and produces ceramic bodies useful in a range of applications with temperatures to 1800°C (3272°F). Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ZIRALCAST-95-Alumina-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	After firing to 540°C
	1.41 g/cc	0.0509 lb/in ³	After firing to 1480°C
	1.52 g/cc	0.0549 lb/in ³	As Cast
Particle Size	5000 µm	5000 µm	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00330 GPa	0.479 ksi	
	@Temperature 315 °C	@Temperature 599 °F	
	0.00576 GPa	0.835 ksi	
	@Temperature 1480 °C	@Temperature 2700 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.710 W/m-K	4.93 BTU-in/hr-ft ² -°F	
	@Temperature 1038 °C	@Temperature 1900 °F	
	0.930 W/m-K	6.45 BTU-in/hr-ft ² -°F	
	@Temperature 1671 °C	@Temperature 3040 °F	
	0.990 W/m-K	6.87 BTU-in/hr-ft ² -°F	
	@Temperature 93.0 °C	@Temperature 199 °F	
Shrinkage	-0.300 %	-0.300 %	
	@Temperature 1480 °C	@Temperature 2700 °F	
	0.100 %	0.100 %	
	@Temperature 315 °C	@Temperature 599 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	95.3 %	95.3 %	
CaO	3.7 %	3.7 %	
Fe2O3	0.10 %	0.10 %	
SiO2	0.40 %	0.40 %	

Processing Properties	Metric	English	Comments
Dry Time	1 - 4 hour	1 - 4 hour	Hydraulic Set Time, Initial
	7 - 10 hour	7 - 10 hour	Hydraulic Set Time, Final

Descriptive Properties	Value	Comments
Water of Hydration	11-17 wt%	

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