

Pyrotek Pyrocast 92AC Tabular Alumina Based Low Cement Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Pyrocast 92AC is a tabular alumina based low cement castable, enhanced with non-wetting matrix. The silica-free matrix eliminates the potential for aluminum attack on silica with in the bonding matrix. Pyrocast 92AC is designed for applications which are prone to corrosion by aggressive aluminum alloys and corundum growth problems. This product is ideally suited for belly band and lower sidewall applications. Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-92AC-Tabular-Alumina-Based-Low-Cement-Castable.php

Physical Properties	Metric	English	Comments
Density	2.95 g/cc	0.107 lb/in ³	after firing to 1093°C
	3.00 g/cc	0.108 lb/in ³	after firing to 110°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00540 GPa	0.783 ksi	
	@Temperature 110 °C	@Temperature 230 °F	
	0.00930 GPa	1.35 ksi	
	@Temperature 1093 °C	@Temperature 1999 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.95 W/m-K	20.5 BTU-in/hr-ft ² -°F	
	@Temperature 815 °C	@Temperature 1500 °F	
	3.07 W/m-K	21.3 BTU-in/hr-ft ² -°F	
	@Temperature 1316 °C	@Temperature 2401 °F	
	3.50 W/m-K	24.3 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
Maximum Service Temperature, Air	1705 °C	3101 °F	
Shrinkage	0.000 %	0.000 %	
	@Temperature 110 °C	@Temperature 230 °F	
	0.0800 %	0.0800 %	
	@Temperature 1093 °C	@Temperature 1999 °F	

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
Other	2.1 %	2.1 %	
SiO2	0.10 %	0.10 %	

Contact Songhan Plastic Technology Co.,Ltd.

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