

Pyrotek Pyrocast 220HT Refractory Castable

Category : Ceramic , Carbide , Oxide , Silicon Oxide

Material Notes:

Pyrocast 220HT is a high-performance refractory castable based on fused silica and silicon carbide. Applications Transfer troughs Launder linings Filter boxes Pins and spouts Advantages Thermal shock resistance High strength and erosion resistance High service temperature Non-wetting in continuous aluminum casting applications Non-wetting to aluminum alloys that contain high levels of Mg, Zn and Si Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-220HT-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	2.115 g/cc	0.07641 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0100 GPa @Treatment Temp. 725 °C	1.45 ksi @Treatment Temp. 1340 °F	ASTM C133-84
Compressive Strength	50.0 MPa	7250 psi	cured at 725°C, based on ASTM C133-84

Thermal Properties	Metric	English	Comments
CTE, linear	1.80 µm/m-°C	1.00 µin/in-°F	
	@Temperature 100 - 1000 °C	@Temperature 212 - 1830 °F	
Thermal Conductivity	0.790 W/m-K	5.48 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	1.08 W/m-K	7.50 BTU-in/hr-ft ² -°F	
	@Temperature 550 °C	@Temperature 1020 °F	
	1.45 W/m-K	10.1 BTU-in/hr-ft ² -°F	
	@Temperature 700 °C	@Temperature 1290 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	Recommended for use in continuous casting applications

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	10 %	10 %	
CaO	3.0 %	3.0 %	

Other Component Elements Properties	Metric	English	Comments
SiC	35 %	35 %	
SiO2	39 %	39 %	

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