

Pyrotek Pyrocast AR70 Low-Density Refractory Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast AR70 refractory castable is a high-strength, low-density refractory well suited for specific aluminum foundry applications. Applications Sprue Bushings for low pressure die casting Intermediate tube linings for low pressure die casting Riser inserts for gravity permanent mold casting Advantages Low density High strength and erosion resistance Non-wetting to molten aluminum Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-AR70-Low-Density-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00690 GPa @Treatment Temp. 815 °C	1.00 ksi @Treatment Temp. 1500 °F	fired and cooled

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K @Temperature 260 °C	2.08 BTU-in/hr-ft ² -°F @Temperature 500 °F	
	0.330 W/m-K @Temperature 538 °C	2.29 BTU-in/hr-ft ² -°F @Temperature 1000 °F	
Maximum Service Temperature, Air	850 °C	1560 °F	
Shrinkage	0.100 % @Temperature 760 °C	0.100 % @Temperature 1400 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	20.6 %	20.6 %	
CaO	15.4 %	15.4 %	
Other	7.1 %	7.1 %	
SiO ₂	56.9 %	56.9 %	

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