

Pyrotek Pyrocast AR LITE Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

A light weight highly insulating refractory product which offers excellent resistance to molten aluminum erosion and thermal shock. Applications For conveyance and casting of aluminum and its alloys Advantages Excellent durability Superior insulating properties Pre-fired Low start-up shrinkage Dimensionally stable at working temperature Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-AR-LITE-Castable-Refractory.php

Physical Properties	Metric	English	Comments
Density	1.121 g/cc	0.04050 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Strength	4.13 MPa	599 psi	after 427°C

Thermal Properties	Metric	English	Comments
CTE, linear	0.990 µm/m-°C	0.550 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	
	@Temperature 157 °C	@Temperature 315 °F	
	0.410 W/m-K	2.85 BTU-in/hr-ft ² -°F	
	@Temperature 435 °C	@Temperature 815 °F	
	0.510 W/m-K	3.54 BTU-in/hr-ft ² -°F	
	@Temperature 698 °C	@Temperature 1290 °F	
Maximum Service Temperature, Air	760 °C	1400 °F	intermittent

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	29 %	29 %	
CaO	11 %	11 %	
SiO ₂	60 %	60 %	

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