

Pyrotek Pyrocast 80 Lightweight Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast 80 is a lightweight, low cement, fused silica castable designed for moderate flow molten aluminum contact applications. Pyrocast 80 offers low thermal conductivity, excellent resistance to thermal shock, and excellent resistance to attack by molten aluminum. Applications Aluminum transfer troughs Insulating casting troughs Wagstaff table sections Advantages Low thermal conductivity Excellent thermal shock resistance Non-wetting to molten aluminum Light-weight Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-80-Lightweight-Castable-Refractory.php

Physical Properties	Metric	English	Comments
Density	1.281 g/cc	0.04628 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00200 GPa	0.290 ksi	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.00200 GPa	0.290 ksi	
	@Temperature 816 °C	@Temperature 1500 °F	
	0.00300 GPa	0.435 ksi	
	@Temperature 110 °C	@Temperature 230 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.390 W/m-K	2.71 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1204 °C	2199 °F	
Shrinkage	0.0500 %	0.0500 %	
	@Temperature 816 °C	@Temperature 1500 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	22.86 %	22.86 %	

Component Elements Properties	Metric	English	Comments
CaO	2.56 %	2.56 %	
Fe2O3	0.31 %	0.31 %	
SiO2	73.77 %	73.77 %	
TiO2	0.36 %	0.36 %	

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