

Pyrotek Pyrocast AL3 Abrasion & Alkali Resistant Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Pyrocast AL3 is suited for use in aluminum melting equipment and metal transfer areas where sever wear or alkali attack are a factor.

Pyrocast AL3 is a high-purity mullite based refractory with low iron content. Applications Aluminum melting equipment Aluminum holding equipment Transfer troughs Ladle linings Advantages Outstanding hot strength Excellent abrasion resistance Resists alkali attack Resists molten aluminum attack Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-AL3-Abrasion-Alkali-Resistant-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	2.675 g/cc	0.09664 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0386 GPa	5.60 ksi	Hot
	@Temperature 816 °C	@Temperature 1500 °F	
	0.0200 GPa	2.90 ksi	fired and cooled
	@Treatment Temp. 110 °C	@Treatment Temp. 230 °F	
	0.0280 GPa	4.06 ksi	fired and cooled
	@Treatment Temp. 954 °C	@Treatment Temp. 1750 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.56 W/m-K	10.8 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	1.59 W/m-K	11.0 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	1.69 W/m-K	11.7 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
	1.83 W/m-K	12.7 BTU-in/hr-ft ² -°F	
	@Temperature 1093 °C	@Temperature 1999 °F	
Maximum Service Temperature, Air	1704 °C	3099 °F	
Shrinkage	0.200 %	0.200 %	Linear
	@Temperature 954 °C	@Temperature 1750 °F	

Thermal Properties	Metric	English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	69.3 %	69.3 %	
Alkalis	0.18 %	0.18 %	
CaO	1.8 %	1.8 %	
Fe2O3	0.78 %	0.78 %	
MgO	0.12 %	0.12 %	
SiO2	24.97 %	24.97 %	
TiO2	1.97 %	1.97 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China