

Pyrotek Pyrocast AR Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast AR is a fused silica castable refractory inert to liquid aluminum and its alloys. It is a high strength material offering resistance to erosion and mechanical damage. Parts cast from Pyrocast AR are heat-treated to ensure free and combined water are removed. Pyrocast AR floats in aluminum, minimizing the potential for refractory inclusions. Applications Hot-top table sections Transfer & stub troughs
Launder linings Filter boxes Sheet ingot spouts Control pins Furnace tubes Advantages Dimensionally stable Thermal shock resistant Easily cleaned Extremely durable Smooth cast surface Preheating unnecessary Non-wetting Information provided by Pyrotek.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.86 - 1.89 g/cc	0.0672 - 0.0683 lb/in ³	
Open Porosity	20 - 24 %	20 - 24 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00690 GPa	1.00 ksi	
	@Treatment Temp. 649 °C	@Treatment Temp. 1200 °F	
Flexural Strength	0.0103 GPa	1.49 ksi	
	@Treatment Temp. 815 °C	@Treatment Temp. 1500 °F	
Compressive Strength	9.00 MPa	1310 psi	
Compressive Strength	41.4 MPa	6000 psi	cured at 649°C

Thermal Properties	Metric	English	Comments
CTE, linear	0.810 µm/m-°C	0.450 µin/in-°F	
	@Temperature 649 °C	@Temperature 1200 °F	
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
Thermal Conductivity	0.710 W/m-K	4.93 BTU-in/hr-ft ² -°F	
	@Temperature 550 °C	@Temperature 1020 °F	
Thermal Conductivity	0.820 W/m-K	5.69 BTU-in/hr-ft ² -°F	
	@Temperature 700 °C	@Temperature 1290 °F	
	760 °C	1400 °F	Not recommended for use in

Maximum Service Temperature, Air Thermal Properties	Metric	English	continuous casting applications. Comments
Shrinkage	0.200 - 0.250 %	0.200 - 0.250 %	
	@Treatment Temp. 725 °C	@Treatment Temp. 1340 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	16 %	16 %	
CaO	4.0 %	4.0 %	
SiO2	80 %	80 %	

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