

Pyrotek Pyrocast AR-S Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast AR-S is a low cement, fused silica, castable refractory which exhibits excellent resistance to thermal shock. It is inert to liquid aluminum and its alloys. It is a high strength material offering outstanding resistance to erosion and mechanical damage. Applications Transfer & stub troughs Launder linings Filter boxes Sheet ingot spouts Furnace tubes Cross-Feeders 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-S-Castable-Refractory.php

Physical Properties	Metric	English	Comments
Density	1.99 g/cc	0.0719 lb/in ³	
Open Porosity	20 - 24 %	20 - 24 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0120 GPa @Treatment Temp. 540 °C	1.74 ksi @Treatment Temp. 1000 °F	
Compressive Strength	48.0 MPa	6960 psi	cured at 540°C

Thermal Properties	Metric	English	Comments
CTE, linear	1.80 μm/m-°C @Temperature 649 °C	1.00 μin/in-°F @Temperature 1200 °F	
Thermal Conductivity	1.06 W/m-K @Temperature 260 °C	7.36 BTU-in/hr-ft ² -°F @Temperature 500 °F	
	1.10 W/m-K @Temperature 540 °C	7.63 BTU-in/hr-ft ² -°F @Temperature 1000 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	
Shrinkage	-0.300 % @Temperature 540 °C	-0.300 % @Temperature 1000 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	16.5 %	16.5 %	

CaO Component Elements Properties	Metric	English	Comments
Other	1.9 %	1.9 %	
SiO2	80 %	80 %	

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