

Pyrotek Pyrocast AR FINE Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast AR Fine is a fine-grain fused silica castable, offering similar insulation properties, yet lighter weight than the Pyrocast AR formulation. Pyrocast AR Fine is suited for thin wall castings, or cast shapes with less than one inch cross section thickness. Parts cast from Pyrocast AR Fine are heat-treated as part of the manufacturing process to remove free and combined water. Applications: Thimbles, Hot-top table sections, Transfer and 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-FINE-Castable-Refractory.php

Physical Properties	Metric	English	Comments
Density	1.86 - 1.89 g/cc	0.0672 - 0.0683 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00850 GPa	1.23 ksi	
	@Temperature 725 °C	@Temperature 1340 °F	
Compressive Strength	0.00615 GPa	0.892 ksi	
	@Treatment Temp. 650 °C	@Treatment Temp. 1200 °F	
	43.2 MPa	6270 psi	cured at 650°C

Thermal Properties	Metric	English	Comments
CTE, linear	0.320 μm/m-°C	0.178 μin/in-°F	
	@Temperature 650 °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	
	0.710 W/m-K	4.93 BTU-in/hr-ft ² -°F	
	@Temperature 550 °C	@Temperature 1020 °F	
	0.820 W/m-K	5.69 BTU-in/hr-ft ² -°F	
	@Temperature 700 °C	@Temperature 1290 °F	
Maximum Service Temperature, Air	760 °C	1400 °F	Exception: Not recommended for use in continuous casting applications.
	0.400 %	0.400 %	

Shrinkage Thermal Properties	Metric @ Temperature 815 °C	English @ Temperature 1500 °F	Linear Comments
Component Elements Properties	Metric	English	Comments
Al2O3	29 %	29 %	
CaO	11 %	11 %	
SiO2	60 %	60 %	

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