

Pyrotek Pyrocast HD Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast HD is an insulating castable which is particularly suitable in applications where a combination of low thermal conductivity and long service life is required. Applications: Launder lining, Hot-top table sections, Header rings, Sheet ingot tubes. Advantages: Low thermal conductivity, Non-wetting, Good thermal stability, Easily machined. Information provided by Pyrotek.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	oven dried

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00600 GPa	0.870 ksi	
Compressive Strength	13.0 MPa	1890 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.410 W/m-K @Temperature 700 °C	2.85 BTU-in/hr-ft ² -°F @Temperature 1290 °F	
Maximum Service Temperature, Air	850 °C	1560 °F	
Shrinkage	-0.400 % @Temperature 700 °C, Time 10800 sec	-0.400 % @Temperature 1290 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	48 %	48 %	
CaO	30 %	30 %	
Other	2.0 %	2.0 %	
SiO ₂	20 %	20 %	

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