

## Pyrotek ISOCAST Insulating Refractory Castable

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Pyrotek's Isocast is a refractory castable based on phosphate bonded calcium silicate material. Isocast exhibits excellent thermal insulation characteristics and very good behavior with respect to molten aluminum. Applications Trough sections Hot-top table sections Launder lining Stub troughs Filter boxes Advantages Non-wetting Does not require preheating prior to usage Low K-factor Thermal shock resistant Non-asbestos Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-ISOCAST-Insulating-Refractory-Castable.php](http://www.lookpolymers.com/polymer_Pyrotek-ISOCAST-Insulating-Refractory-Castable.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	measured on material fired at 370°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00380 GPa @Treatment Temp. 370 °C	0.551 ksi @Treatment Temp. 698 °F	measured on material fired at 370°C
Compressive Strength	10.0 MPa	1450 psi	measured on material fired at 370°C

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 µm/m-°C @Temperature 20.0 °C	4.44 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft <sup>2</sup> -°F	
	0.240 W/m-K @Temperature 280 °C	1.67 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 536 °F	
	0.310 W/m-K @Temperature 662 °C	2.15 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 1220 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	0.950 % @Temperature 370 °C	0.950 % @Temperature 698 °F	measured on material fired at 370°C

## Contact Songhan Plastic Technology Co.,Ltd.

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