

Pyrotek Pyrocast TG Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast TG is a technical-grade silica based refractory developed for the non-ferrous industry including nickel, copper, zinc, and their alloys. Applications Coreless induction furnace lining Channel-type furnace lining Kilns Boilers Heat treating furnaces Forge furnaces Copper base alloys Advantages Excellent thermal shock resistance Dimensionally stable Good insulation for density Does not inhibit induction energy transfer Information provided by Pyrotek.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.875 g/cc	0.06774 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00800 GPa	1.16 ksi	
	@Temperature 850 °C	@Temperature 1560 °F	
Compressive Strength	38.0 MPa	5510 psi	
	@Temperature 850 °C	@Temperature 1560 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	0.250 µm/m-°C	0.139 µin/in-°F	
	@Temperature <= 1010 °C	@Temperature <= 1850 °F	
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.610 W/m-K	4.23 BTU-in/hr-ft ² -°F	
	@Temperature 295 °C	@Temperature 563 °F	
	0.780 W/m-K	5.41 BTU-in/hr-ft ² -°F	
	@Temperature 815 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1480 °C	2700 °F	
Shrinkage	0.200 %	0.200 %	
	@Temperature 1090 °C	@Temperature 1990 °F	

Component Elements Properties	Metric	English	Comments

Al ₂ O ₃ Component Elements Properties	Metric	English	Comments
CaO	6.0 %	6.0 %	
Other	4.0 %	4.0 %	
SiC	74 %	74 %	

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