

Pyrotek Pyrocast ICL Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast ICL was developed exclusively for the induction furnace market as a coil lining refractory. This silica and alumina based material displays high strength and excellent thermal shock resistance. Applications Induction coil lining Boiler preheater lining Component linings Advantages Excellent window for induction energy Extremely stable Thermal shock resistant Minimum maintenance Resilient to cracking Fewest shorts Long-life coil lining Information provided by Pyrotek.

Order this product through the following link:

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

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

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0100 GPa	1.45 ksi	
Compressive Strength	41.0 MPa	5950 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.250 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	0.139 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature ≤ 1010 $^\circ\text{C}$	@Temperature ≤ 1850 $^\circ\text{F}$	
Thermal Conductivity	0.620 W/m-K	4.30 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 295 $^\circ\text{C}$	@Temperature 563 $^\circ\text{F}$	
	0.690 W/m-K	4.79 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 540 $^\circ\text{C}$	@Temperature 1000 $^\circ\text{F}$	
	0.820 W/m-K	5.69 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 815 $^\circ\text{C}$	@Temperature 1500 $^\circ\text{F}$	
Maximum Service Temperature, Air	1650 $^\circ\text{C}$	3000 $^\circ\text{F}$	
Shrinkage	0.200 %	0.200 %	
	@Temperature 1090 $^\circ\text{C}$	@Temperature 1990 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	19 %	19 %	
CaO	6.0 %	6.0 %	

Other Component Elements Properties	Metric 1.0%	English 1.0%	Comments
SiC	74 %	74 %	

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