

Pyrotek Pyrocast ALFS Abrasion-Resistant Refractory Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast ALFS refractory is a high flow, fused silica castable. At low water levels (6.5-7%), Pyrocast ALFS exhibits outstanding flow characteristics. Applications Aluminum melting equipment Aluminum holding equipment Transfer troughs Ladle linings Filter Bowls Advantages Exceptional resistance to thermal shock Non-wetting to molten aluminum Improved service life in molten aluminum transfer applications Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-ALFS-Abrasion-Resistant-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	1.986 g/cc	0.07175 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00950 GPa	1.38 ksi	
	@Temperature 954 °C	@Temperature 1750 °F	
	0.0102 GPa	1.48 ksi	
	@Temperature >=110 °C	@Temperature >=230 °F	
	0.0120 GPa	1.74 ksi	
	@Temperature 537 °C	@Temperature 999 °F	
Compressive Strength	34.5 MPa	5000 psi	
	@Temperature 110 °C	@Temperature 230 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.34 W/m-K	9.30 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	1.46 W/m-K	10.1 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	1.54 W/m-K	10.7 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1371 °C	2500 °F	
Shrinkage	0.150 %	0.150 %	
	@Temperature 954 °C	@Temperature 1750 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	16.51 %	16.51 %	
Alkalis	0.13 %	0.13 %	
CaO	1.62 %	1.62 %	
Fe2O3	0.28 %	0.28 %	
SiO2	79.66 %	79.66 %	
TiO2	0.36 %	0.36 %	

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