

Pyrotek Pyrocast SCM-2600 High Wear Impact Refractory Castable

Category : Ceramic , Carbide

Material Notes:

Pyrocast SCM-2600 is suited for use in aluminum applications where severe wear is a factor. It is a high purity silicon carbide based refractory with low cement content. Applications High erosion areas of aluminum transfer launders Aluminum tapout blocks in melting and holding furnaces Baffles Advantages High wear resistance High thermal conductivity Resistant to molten metal Low iron content Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-SCM-2600-High-Wear-Impact-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Density	2.563 g/cc	0.09259 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0170 GPa	2.47 ksi	
	@Temperature >=110 °C	@Temperature >=230 °F	
	0.0240 GPa	3.48 ksi	
	@Temperature 816 °C	@Temperature 1500 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	6.60 W/m-K	45.8 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	6.66 W/m-K	46.2 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	7.19 W/m-K	49.9 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
	7.80 W/m-K	54.1 BTU-in/hr-ft ² -°F	
	@Temperature 1093 °C	@Temperature 1999 °F	
Maximum Service Temperature, Air	1427 °C	2601 °F	
Shrinkage	0.100 %	0.100 %	Linear
	@Temperature 816 °C	@Temperature 1500 °F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	7.9 % Metric	7.9 % English	Comments
CaO	2.2 %	2.2 %	
Other	6.9 %	6.9 %	
SiC	76.7 %	76.7 %	
SiO2	6.3 %	6.3 %	

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