

Pyrotek Pyrocast SC-2600 Castable Refractory

Category : Ceramic , Carbide

Material Notes:

Pyrocast SC-2600 is a high purity silicon carbide based refractory for applications requiring high thermal conductivity, resistance to metal and flame abrasion. Applications Filter boxes Burner tubes Troughs Tap out blocks Special refractory shapes Baffles Filter bowl tiles
Advantages Resistant to metal Resistant to flame abrasion High thermal conductivity Withstands high temperatures Extremely hard
Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-SC-2600-Castable-Refractory.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 2.40 g/cc | 0.0867 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|----------|
| Modulus of Rupture | 0.00800 GPa | 1.16 ksi | |
| | @Temperature 90.0 °C | @Temperature 194 °F | |
| | 0.0220 GPa | 3.19 ksi | |
| | @Temperature 815 °C | @Temperature 1500 °F | |
| | 0.0300 GPa | 4.35 ksi | |
| | @Temperature 1370 °C | @Temperature 2500 °F | |
| Compressive Strength | 10.0 MPa | 1450 psi | |
| | @Temperature 815 °C | @Temperature 1500 °F | |
| | 19.0 MPa | 2760 psi | |
| | @Temperature 90.0 °C | @Temperature 194 °F | |
| | 19.0 MPa | 2760 psi | |
| | @Temperature 1370 °C | @Temperature 2500 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------|---|----------|
| Thermal Conductivity | 9.40 - 10.8 W/m-K | 65.2 - 75.0 BTU-in/hr-ft ² -°F | |
| Maximum Service Temperature, Air | 1480 °C | 2700 °F | |
| Shrinkage | -0.600 % | -0.600 % | Linear |
| | @Temperature 1300 °C | @Temperature 2370 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3 | 12 % | 12 % | |
| CaO | 3.0 % | 3.0 % | |
| Other | 1.0 % | 1.0 % | |
| SiC | 83 % | 83 % | |
| SiO2 | 1.0 % | 1.0 % | |

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