

Pyrotek Pyrocast ALF3 Low Cement Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Pyrocast ALF3 is a low cement castable with a high-purity mullite base. It is suited for applications exposed to high erosion or aggressive alloys and/or atmospheres. Applications Aluminum melting and holding furnace linings Aluminum transfer launders Transfer ladles
Advantages Outstanding hot strength High abrasion resistance Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrocast-ALF3-Low-Cement-Refractory-Castable.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|----------------------------|----------|
| Density | 2.691 g/cc | 0.09722 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------------------|--------------------------|------------------|
| Modulus of Rupture | 0.0438 GPa | 6.35 ksi | Hot |
| | @Temperature 816 °C | @Temperature 1500 °F | |
| | 0.0200 GPa | 2.90 ksi | fired and cooled |
| | @Treatment Temp. 110 °C | @Treatment Temp. 230 °F | |
| | 0.0300 GPa | 4.35 ksi | fired and cooled |
| | @Treatment Temp. 954 °C | @Treatment Temp. 1750 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------|------------------------------------|----------|
| Thermal Conductivity | 1.63 W/m-K | 11.3 BTU-in/hr-ft ² -°F | |
| | @Temperature 260 °C | @Temperature 500 °F | |
| | 1.66 W/m-K | 11.5 BTU-in/hr-ft ² -°F | |
| | @Temperature 538 °C | @Temperature 1000 °F | |
| | 1.70 W/m-K | 11.8 BTU-in/hr-ft ² -°F | |
| | @Temperature 816 °C | @Temperature 1500 °F | |
| | 1.89 W/m-K | 13.1 BTU-in/hr-ft ² -°F | |
| | @Temperature 1093 °C | @Temperature 1999 °F | |
| Maximum Service Temperature, Air | 1704 °C | 3099 °F | |
| Shrinkage | 10.1 % | 10.1 % | Linear |
| | @Temperature 954 °C | @Temperature 1750 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|----------|
| Al2O3 | 69.85 % | 69.85 % | |
| Alkalis | 0.22 % | 0.22 % | |
| CaO | 1.92 % | 1.92 % | |
| Fe2O3 | 0.98 % | 0.98 % | |
| MgO | 0.11 % | 0.11 % | |
| SiO2 | 24.36 % | 24.36 % | |
| TiO2 | 1.43 % | 1.43 % | |

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