

Pyrotek Pyrocast AR PLUS Castable Refractory

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrocast AR Plus is a fused silica refractory castable inert to molten aluminum and its alloys. Parts cast from Pyrocast AR Plus are heat-treated to ensure that free and combined water are removed. Because Pyrocast AR Plus is lighter than molten aluminum, it floats, minimizing the potential for refractory inclusions. Applications Hot-Top table sections Transfer & stub troughs Launder linings Filter boxes Sheet ingot spouts Control pins Furnace tubes Advantages Thermal shock resistance High erosion resistance High service temperature Smooth cast surface Dimensionally stable Preheating unnecessary Easily cleaned Non-wetting Information provided by Pyrotek.

Order this product through the following link:

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

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------------------------|----------|
| Density | 1.90 - 1.95 g/cc | 0.0686 - 0.0704 lb/in ³ | |
| Open Porosity | 20 - 24 % | 20 - 24 % | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|--------------------------------------|----------------|
| Modulus of Rupture | 0.0100 GPa @Treatment Temp. 725 °C | 1.45 ksi @Treatment Temp. 1340 °F | |
| Compressive Strength | 34.5 MPa | 5000 psi | cured at 725°C |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|--|---|
| CTE, linear | 0.550 μm/m-°C @Temperature 100 - 1000 °C | 0.306 μin/in-°F @Temperature 212 - 1830 °F | |
| Thermal Conductivity | 0.650 W/m-K @Temperature 400 °C | 4.51 BTU-in/hr-ft ² -°F @Temperature 752 °F | |
| | 0.780 W/m-K @Temperature 550 °C | 5.41 BTU-in/hr-ft ² -°F @Temperature 1020 °F | |
| | 0.870 W/m-K @Temperature 700 °C | 6.04 BTU-in/hr-ft ² -°F @Temperature 1290 °F | |
| Maximum Service Temperature, Air | 780 °C | 1440 °F | Not recommended for use in continuous casting applications. |
| Shrinkage | 0.200 - 0.250 % @Temperature 725 °C | 0.200 - 0.250 % @Temperature 1340 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3 | 16 % | 16 % | |
| CaO | 4.0 % | 4.0 % | |
| Other | 6.0 % | 6.0 % | |
| SiO2 | 76 % | 76 % | |

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