

Aremco Ceramacast™ 510 High Temperature Potting & Casting Material Alumina

Category : Ceramic , Oxide , Aluminum Oxide , Potting/Casting Ceramic

Material Notes:

Coarse grain castable for producing large hi-temp tooling.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-510-High-Temperature-Potting-Casting-Material-Alumina.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Bulk Density | 1.79 g/cc | 0.0648 lb/in ³ | Powder |
| Porosity | <= 7.00 % | <= 7.00 % | |
| pH | 3.0 - 4.0 | 3.0 - 4.0 | |
| Viscosity | 12000 cP | 12000 cP | mixed |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|----------|----------|
| Compressive Strength | 55.2 MPa | 8000 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|---|----------|
| CTE, linear | 7.02 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 3.90 $\mu\text{in}/\text{in}\cdot\text{°F}$ | |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Maximum Service Temperature, Air | 1760 °C | 3200 °F | |
| Shrinkage | <= 1.00 % | <= 1.00 % | |
| | @Temperature 538 °C | @Temperature 1000 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|----------|
| Volume Resistivity | 1.00e+9 ohm-cm | 1.00e+9 ohm-cm | |
| Dielectric Strength | 2.95 kV/mm | 75.0 kV/in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|---|
| Cure Time | 1800 min | 30.0 hour | Cover mold with polyethylene sheet or locate in a humidity chamber for 24 hrs; 3 hrs at 200°F; 3 hrs at 250°F |
| Pot Life | 120 - 180 min | 120 - 180 min | |
| Shelf Life | 12.0 Month | 12.0 Month | |

| Descriptive Properties | Value | Comments |
|------------------------|------------|----------------|
| Acid Resistance | Good | attacked by HF |
| Alkali Resistance | Good | |
| Color | Light Gray | |
| Mix Ratio | 100:15-19 | powder:liquid |
| Moisture Resistance | Good | |

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