

CeramTec ALUTIT® S Aluminum Titanate (Strength Optimized)

Category : Ceramic , Oxide , Aluminum Oxide , Titanium Oxide

Material Notes:

ALUTIT®, which is produced in a special reaction-sintering process, consists of high-purity aluminum oxide and titanium oxide. It offers excellent resistance to sudden changes in temperature, good heat insulation, low thermal expansion, and good chemical resistance. Typical applications are found in the nonferrous metals casting industry. ALUTIT® S is optimized for strength and is used mainly in riser tubes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-ALUTIT-S-Aluminum-Titanate-Strength-Optimized.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------|--------------------------|----------------|
| Density | 3.35 g/cc | 0.121 lb/in ³ | |
| Porosity | 12.5 % | 12.5 % | |
| Pore Size | 0.100 microns | 0.00394 mil | Average Radius |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|----------|------------------|
| Modulus of Elasticity | 20.0 GPa | 2900 ksi | |
| Flexural Strength | 40.0 MPa | 5800 psi | Bending Strength |

| Thermal Properties | Metric | English | Comments |
|----------------------|----------------------------|------------------------------------|----------|
| CTE, linear | <= 1.00 µm/m-°C | <= 0.556 µin/in-°F | |
| | @Temperature 20.0 - 600 °C | @Temperature 68.0 - 1110 °F | |
| Thermal Conductivity | 1.50 W/m-K | 10.4 BTU-in/hr-ft ² -°F | |

| Descriptive Properties | Value | Comments |
|---------------------------------|-------|--|
| Thermal Shock Resistance R1 (K) | 700 | maximum air/fluid temperature gradient |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China