

Sharadaa Ceramics Smart Cast 9 Medium Cement Castables

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-Smart-Cast-9-Medium-Cement-Castables.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|---------------------------|------------------------------------|
| Bulk Density | 2.35 g/cc | 0.0849 lb/in ³ | After Drying at 110 ^o C |
| Grain Size | <= 10000 μ m | <= 10000 μ m | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|----------------------------------|---------------|
| Modulus of Rupture | 0.00000157 GPa | 0.000228 ksi | |
| | @Temperature 110 ^o C | @Temperature 230 ^o F | |
| | 0.00000167 GPa | 0.000242 ksi | |
| | @Temperature 1100 ^o C | @Temperature 2010 ^o F | |
| | 0.00000196 GPa | 0.000284 ksi | |
| | @Temperature 1500 ^o C | @Temperature 2730 ^o F | |
| Compressive Strength | 123 MPa | 17800 psi | Cold Crushing |
| | @Temperature 110 ^o C | @Temperature 230 ^o F | |
| | 152 MPa | 22000 psi | Cold Crushing |
| | @Temperature 1100 ^o C | @Temperature 2010 ^o F | |
| | 157 MPa | 22800 psi | Cold Crushing |
| | @Temperature 1500 ^o C | @Temperature 2730 ^o F | |
| | 29.4 MPa | 4270 psi | Cold Crushing |
| | @Time 86400 sec | @Time 24.0 hour | |

| Thermal Properties | Metric | English | Comments |
|----------------------|----------------------------------------------------|----------------------------------------------------|----------|
| Thermal Conductivity | 1.49 W/m-K | 10.3 BTU-in/hr-ft ² - ^o F | |
| | @Temperature 400 ^o C, Time 10800 sec | @Temperature 752 ^o F, Time 3.00 hour | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------------------------------------|---------------------------------------------|----------|
| | @Temperature 800 Â°C, Time 10800 sec | @Temperature 1470 Â°F, Time 3.00 hour | |
| Maximum Service Temperature, Air | 1500 Â°C | 2730 Â°F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|----------|----------|----------|
| Al2O3 | >= 50 % | >= 50 % | |
| Fe2O3 | <= 1.1 % | <= 1.1 % | |

| Descriptive Properties | Value | Comments |
|-------------------------|-------------|------------|
| Permanent Linear Change | -0.1 - 0.1% | 800 |
| | -0.2 - 0.2% | 1100 |
| | -0.2 - 0.2% | 1500 |
| Thermal Expansion | 0.5 | Reversible |
| Water Required to Mix | 4-5% | |

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