

Old Hickory UltraCast Slurry PC-2000 Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

These popular slurry grades are shipped at 60% solids content and deflocculated with sodium silicate to maintain stable rheology characteristics. All the above grades are suitable for a variety of ceramic casting formulations ranging from standards bench cast to pressure cast and capillary type production systems. High permeability with good strength and plasticity are key properties of these slurry grade clays. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-UltraCast-Slurry-PC-2000-Kentucky-Ball-Clay.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------------------|------------------------|----------------------------|
| Specific Gravity | 1.585 - 1.60 g/cc | 1.585 - 1.60 g/cc | |
| Solids Content | 60 - 61 % | 60 - 61 % | |
| Particle Size | 0.50 µm | 0.50 µm | 29% of particles less than |
| | 1.0 µm | 1.0 µm | 41% of particles less than |
| | 2.12 µm | 2.12 µm | Median particle diameter |
| | <= 5.0 µm | <= 5.0 µm | 71% of particles less than |
| pH | 3.0 - 5.5 | 3.0 - 5.5 | |
| | @Temperature 32.2 °C | @Temperature 90.0 °F | |
| Soluble Sulfates | 300 - 500 ppm | 300 - 500 ppm | |
| Specific Surface Area | 16.5 m ² /g | 16.5 m ² /g | |
| Viscosity | 100 - 300 cP | 100 - 300 cP | |
| | @Temperature 32.2 °C | @Temperature 90.0 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|-----------|--------------------------------------------|
| Modulus of Rupture | 0.00431 GPa | 0.625 ksi | Dry Modulus of Rupture, 50% clay/50% flint |

| Component Elements Properties | Metric | English | Comments |
|--------------------------------|---------|---------|----------|
| Al ₂ O ₃ | 25.14 % | 25.14 % | |
| CaO | 0.16 % | 0.16 % | |
| Carbon, C | 1.1 % | 1.1 % | |
| Fe ₂ O ₃ | 1.41 % | 1.41 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|----------|
| Loss on Ignition(%) | 9.08 % | 9.08 % | |
| MgO | 0.48 % | 0.48 % | |
| Na2O | 0.11 % | 0.11 % | |
| SiO2 | 60.59 % | 60.59 % | |
| TiO2 | 1.62 % | 1.62 % | |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|---------------------------------------------|
| CEC/MBI (meg/100 ml) | 6.8 | |
| Deflocculant Type | Sodium Silicate (N Brand) | |
| Drop On Curve (cps) | 30-120 | at 90°F, Brookfield, 100 rpm, No. 3 Spindle |

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