

Old Hickory UltraCast Slurry UC-34A 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-UC-34A-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	43% of particles less than
	0.87 µm	0.87 µm	Median particle diameter
	1.0 µm	1.0 µm	52% of particles less than
	<= 5.0 µm	<= 5.0 µm	77% of particles less than
pH	5.0	5.0	
	@Temperature 32.2 °C	@Temperature 90.0 °F	
Soluble Sulfates	300 - 450 ppm	300 - 450 ppm	
Specific Surface Area	17.2 m ² /g	17.2 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	0.00493 GPa	0.715 ksi	Dry Modulus of Rupture, 50% clay/50% flint

Thermal Properties	Metric	English	Comments
Shrinkage	6.3 %	6.3 %	Linear Drying Shrinkage, 100% Clay

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	28 %	28 %	
CaO	0.20 %	0.20 %	

Component Elements Properties	Metric	English	Comments
K2O	1.4 %	1.4 %	
Loss on Ignition(%)	10.4 %	10.4 %	
MgO	0.40 %	0.40 %	
Na2O	0.10 %	0.10 %	
SiO2	56.4 %	56.4 %	
TiO2	1.7 %	1.7 %	

Descriptive Properties	Value	Comments
CEC/MBI (meg/100 ml)	9.3	
Deflocculant Type	Sodium Silicate (N Brand)	
Drop On Curve (cps)	40-100	at 90°F, Brookfield, 100 rpm, No. 3 Spindle

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