

Old Hickory UltraCast Slurry PC-2034 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-2034-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	31% of particles less than
	1.0 µm	1.0 µm	42% of particles less than
	1.89 µm	1.89 µm	Median particle diameter
	<= 5.0 µm	<= 5.0 µm	73% of particles less than
pH	4.7	4.7	
	@Temperature 32.2 °C	@Temperature 90.0 °F	
Soluble Sulfates	300 - 500 ppm	300 - 500 ppm	
Specific Surface Area	17.1 m ² /g	17.1 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	0.00462 GPa	0.670 ksi	Dry Modulus of Rupture, 50% clay/50% flint

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	26.79 %	26.79 %	
CaO	0.16 %	0.16 %	
Carbon, C	1.1 %	1.1 %	
Fe ₂ O ₃	1.36 %	1.36 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	9.08 %	9.08 %	
MgO	0.48 %	0.48 %	
Na2O	0.11 %	0.11 %	
SiO2	58.41 %	58.41 %	
TiO2	1.61 %	1.61 %	

Descriptive Properties	Value	Comments
CEC/MBI (meg/100 ml)	7.1	
Deflocculant Type	Sodium Silicate (N Brand)	
Drop On Curve (cps)	35-120	at 90°F

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