

## Old Hickory No. 1 Glaze Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

### Material Notes:

No. 1 Glaze Clay is a very high kaolin bearing selection with extremely low levels of carbon content. it provides excellent suspension to all types of glazes especially glazes containing a high percentage of frit which has soluble alkali. No. Glaze provides viscosity control range and excellent rheology for all glaze application methods and especially bell or cone applications processes. Information provided by Old Hickory Clay Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Old-Hickory-No-1-Glaze-Kentucky-Ball-Clay.php](http://www.lookpolymers.com/polymer_Old-Hickory-No-1-Glaze-Kentucky-Ball-Clay.php)

Physical Properties	Metric	English	Comments
Particle Size	0.37 µm	0.37 µm	Median particle diameter
	0.50 µm	0.50 µm	52% of particles less than
	1.0 µm	1.0 µm	63% of particles less than
	<= 5.0 µm	<= 5.0 µm	87% of particles less than
pH	5.9	5.9	
Soluble Sulfates	160 ppm	160 ppm	
Specific Surface Area	18 m <sup>2</sup> /g	18 m <sup>2</sup> /g	

Thermal Properties	Metric	English	Comments
CTE, linear	5.90 µm/m-°C	3.28 µin/in-°F	Pre-fired 1200°C
	@Temperature 50.0 - 500 °C	@Temperature 122 - 932 °F	
Shrinkage	5.8 %	5.8 %	Linear Drying Shrinkage

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	29.37 %	29.37 %	
CaO	0.10 %	0.10 %	
Carbon, C	0.080 %	0.080 %	
Fe <sub>2</sub> O <sub>3</sub>	0.87 %	0.87 %	
K <sub>2</sub> O	0.28 %	0.28 %	
Kaolinite	70.8 %	70.8 %	
Loss on Ignition(%)	9.91 %	9.91 %	

Component Elements Properties	Metric	English	Comments
MgO	0.20 %	0.20 %	
Na2O	0.10 %	0.10 %	
Quartz	22.4 %	22.4 %	
SiO2	56.32 %	56.32 %	
Sulfur, S	0.000073 %	0.000073 %	
TiO2	2.44 %	2.44 %	

Descriptive Properties	Value	Comments
CEC/MBI (meg/100 ml)	7.1	
Crude Color	White	
Dry Sieve Residue (%)	0.4	Dry Sieve Residue, +80 mesh
Feldspar (%)	4.8	
Misc. Trace Minerals (%)	2.3	
Nature of Residue	High Purity Quartz	
Water of Plasticity (%)	31	
Wet Sieve Residue (%)	0.34	Wet Sieve Residue, +325 mesh
	0.39	Wet Sieve Residue, +200 mesh

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