

Old Hickory M-23 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

This is a very high quality porcelain grade ball clay. It has fine particle size distribution for excellent plasticity and strength in pressing or plastic forming application. the low Fe₂O₃ and TiO₂ provide high fired brightness to vitreous ceramic compositions. M-23 also has low carbon content for excellent oxidation qualities. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-M-23-Tennessee-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	58% of particles less than
	1.0 µm	1.0 µm	69% of particles less than
	<= 5.0 µm	<= 5.0 µm	87% of particles less than
pH	5.5	5.5	
Soluble Sulfates	229 ppm	229 ppm	
Specific Surface Area	23.6 m ² /g	23.6 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00345 GPa	0.500 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	6.3 %	6.3 %	Cone 04, Linear Fired Shrinkage
	6.8 %	6.8 %	Linear Drying Shrinkage
	7.5 %	7.5 %	Cone 3, Linear Fired Shrinkage
	8.8 %	8.8 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	28.72 %	28.72 %	
CaO	0.10 %	0.10 %	
Fe ₂ O ₃	1.27 %	1.27 %	
K ₂ O	0.36 %	0.36 %	

Component Elements Properties	Metric	English	Comments
MgO	0.35 %	0.35 %	
Na2O	0.080 %	0.080 %	
SiO2	57.64 %	57.64 %	
TiO2	1.85 %	1.85 %	

Descriptive Properties	Value	Comments
Absorption (%)	10	Cone 3, Fired
	15.4	Cone 04, Fired
	4.5	Cone 11, Fired
CEC/MBI (meg/100 ml)	8.4	
Crude Color	Light Grey	
Filtration (ml)	26	
Pyrometric Cone Equivalent (PCE)	31-32	
Water of Plasticity (%)	38	
Wet Sieve Residue (%)	0.24	Wet Sieve Residue, +200 mesh

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