

Old Hickory S-4 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

The S-4 clay is designed for all types of casting formulas ranging from low fire earthenware to vitreous compositions. It has excellent response to deflocculation and very good casting rate while maintaining plasticity and dry strength qualities. The S-4 can be used as the complete ball clay content in a casting body or used in combination with a fine particle size distribution ball clay to improve the casting properties of the formulation. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-S-4-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	45% of particles less than
	0.65 µm	0.65 µm	Median particle diameter
	1.0 µm	1.0 µm	56% of particles less than
	<= 5.0 µm	<= 5.0 µm	84% of particles less than
pH	5.1	5.1	
Soluble Sulfates	250 ppm	250 ppm	
Specific Surface Area	17.9 m ² /g	17.9 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	4.9 %	4.9 %	Cone 04, Linear Fired Shrinkage
	6.6 %	6.6 %	Cone 3, Linear Fired Shrinkage
	6.8 %	6.8 %	Linear Drying Shrinkage
	8.9 %	8.9 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	28.1 %	28.1 %	
CaO	0.020 %	0.020 %	
Fe ₂ O ₃	1.06 %	1.06 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	10.6 %	10.6 %	
MgO	0.22 %	0.22 %	
Na2O	0.11 %	0.11 %	
SiO2	57.6 %	57.6 %	
TiO2	1.4 %	1.4 %	

Descriptive Properties	Value	Comments
Absorption (%)	11.5	Cone 3, Fired
	18	Cone 04, Fired
	3.5	Cone 11, Fired
CEC/MBI (meg/100 ml)	9.6	
Crude Color	Light Brown	
Filtration (ml)	30	
Pyrometric Cone Equivalent (PCE)	32	
Water of Plasticity (%)	37	
Wet Sieve Residue (%)	0.24	Wet Sieve Residue, +200 mesh

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