

Old Hickory No. 6 Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

No. 6DC is a highly kaolin clay that can be used as a filler grade material where presence of some 200 M quartz residue is not harmful. Applications can include a variety of refractory compositions as well as non-ceramic building products such as cement and fiberglass reinforced construction board. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-No-6-Kentucky-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	50% of particles less than
	0.53 µm	0.53 µm	Median particle diameter
	1.0 µm	1.0 µm	61% of particles less than
	<= 5.0 µm	<= 5.0 µm	84% of particles less than
pH	6.0	6.0	
Soluble Sulfates	50.0 ppm	50.0 ppm	
Specific Surface Area	18.8 m ² /g	18.8 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00307 GPa	0.445 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	4.6 %	4.6 %	Cone 04, Linear Fired Shrinkage
	5.5 %	5.5 %	Linear Drying Shrinkage
	6.0 %	6.0 %	Cone 3, Linear Fired Shrinkage
	8.0 %	8.0 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	29.05 %	29.05 %	
CaO	0.12 %	0.12 %	
Fe2O3	0.99 %	0.99 %	
K2O	0.52 %	0.52 %	

Component Elements Properties	Metric	English	Comments
MgO	0.25 %	0.25 %	
Na2O	0.080 %	0.080 %	
SiO2	57.07 %	57.07 %	
TiO2	2.43 %	2.43 %	

Descriptive Properties	Value	Comments
Absorption (%)	12.5	Cone 3, Fired
	15.2	Cone 04, Fired
	6.3	Cone 11, Fired
CEC/MBI (meg/100 ml)	7.5	
Crude Color	White	
Filtration (ml)	25	
Pyrometric Cone Equivalent (PCE)	32	
Water of Plasticity (%)	30	
Wet Sieve Residue (%)	1.05	Wet Sieve Residue, +200 mesh

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