

KAOLIN CLAY

Coatings & Construction

TECHNICAL DATA

Vanderbilt Minerals, LLC offers several grades of air-floated kaolin clay for use in construction, adhesives, sealants, paints and coatings. These products find use as fillers for primers, alkyd flats and latex paints. Because of their fine particle size, the hard clays are good TiO₂ spacers in paints that do not require a high brightness extender.

TYPICAL COMPOSITION

Typical Chemical Analysis (calculated as oxides)

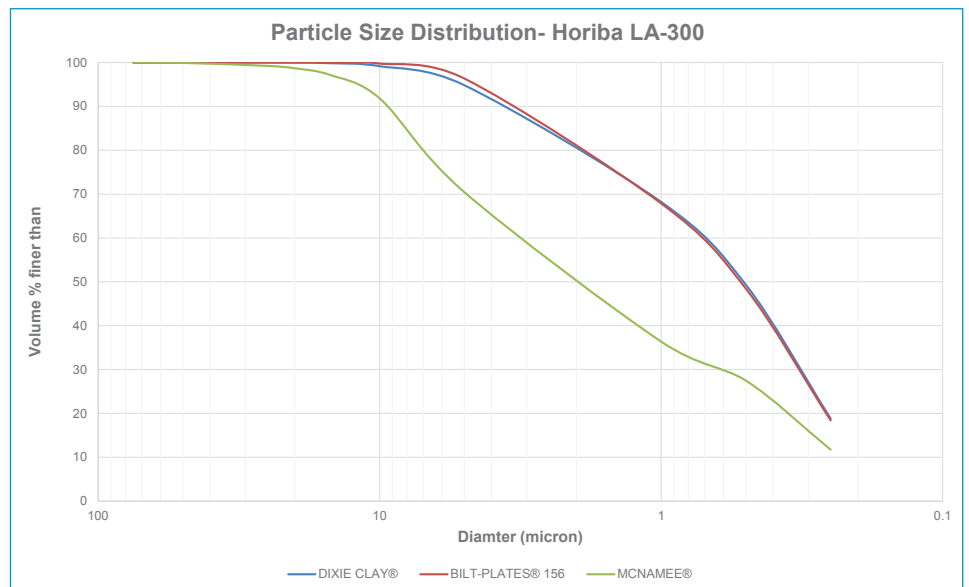
	Hard Clays	Soft Clays
Silicon Dioxide (SiO ₂)	45.7%	45.2%
Aluminum Oxide (Al ₂ O ₃)	36.1%	37.5%
Iron Oxide (Fe ₂ O ₃)	1.6%	0.7%
Titanium Dioxide (TiO ₂)	1.4%	1.4%
Calcium Oxide (CaO)	<0.01%	<0.01%
Potassium Oxide (K ₂ O)	0.35%	0.34%
Magnesium Oxide (MgO)	0.13%	0.12%
Loss on ignition (1000°C)	14%	13.8%

TYPICAL PROPERTIES

	HARD CLAYS		SOFT CLAYS
	BILT-PLATES® 156	DIXIE CLAY®	MCNAMEE®
Density at 25 °C, g/cc	2.62	2.62	2.60
Pounds per gallon	21.8	21.8	21.7
G. E. Brightness (TAPPI T 646)	71	71	75
325 Mesh residue	<0.1%	<0.1%	0.3%
Oil absorption (ASTM D 281)	38	39	33
Hegman fineness (3 lbs/gal)	4	—	—
Horiba PSD			
D 10	0.20 µm	0.20 µm	0.27 µm
D 50	0.54 µm	0.55 µm	2.55 µm
D 90	3.14 µm	3.52 µm	9.61 µm
D 95	4.30 µm	4.87 µm	12.39 µm

SEE THE NEXT PAGE FOR THE HORIBA PSD CHART.

CHART INFORMATION



CONTACT INFORMATION

For samples, product information and/or technical service please contact Vanderbilt Minerals, LLC or the Vanderbilt representative in your area:

Vanderbilt Minerals, LLC
33 Winfield Street, P.O. Box 5150
Norwalk, CT 06856-5150
P: (800) 562-2476
F: (203) 855-1220
www.vanderbiltminerals.com

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