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VANDERBILT

Technical Data

Kaolin Clay

Paint Department

R.T. Vanderbilt Company, Inc. offers five grades of air-floated kaolin clay for use in 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 coatings that do not require a high brightness extender.

The typical properties of the grades are given below:

	Hard Clay		Soft Clay		Hard Clay/Soft Clay Blend
	BILT-PLATES® 156	DIXIE CLAY®	PEERLESS® No. 1	PEERLESS® No. 3	McNAMEE®
Density at 25° C (g/cc)	2.62	2.62	2.6	2.6	2.6
Pounds per gallon	21.8	21.8	21.7	21.7	21.7
G. E. Brightness (TAPPI T 646)	76	70	75	65	75
325 Mesh Residue	0.06%	0.60%	0.70%	0.70%	0.70%
200 Mesh Residue	-	-	0.20%	0.20%	-
Oil Absorption (ASTM D 281)	41	42	30	30	32
Hegman Fineness (3 lbs/gal)	4	-	-	-	-
Median Particle Size (microns)	0.28	0.28	0.62	0.62	0.42

Typical Chemical Analysis (calculated as oxides)

	Hard Clay	Soft Clay	Hard Clay/Soft Clay Blend
Silicon Dioxide (SiO ₂) by difference	45%	44%	44%
Aluminum Oxide (Al ₂ O ₃)	39%	40%	40%
Iron Oxide (Fe ₂ O ₃)	0.5%	0.3%	0.3%
Titanium Dioxide (TiO ₂)	2%	1.2%	1.2%
Calcium Oxide (CaO)	<0.1%	<0.1%	<0.1%
Potassium Oxide (K ₂ O)	-	0.3%	0.3%
Sodium Oxide (Na ₂ O)	-	<0.1%	0.3%
Magnesium Oxide (MgO)	-	<0.1%	<0.1%
Loss on Ignition (1000 °C)	13%	14%	14%

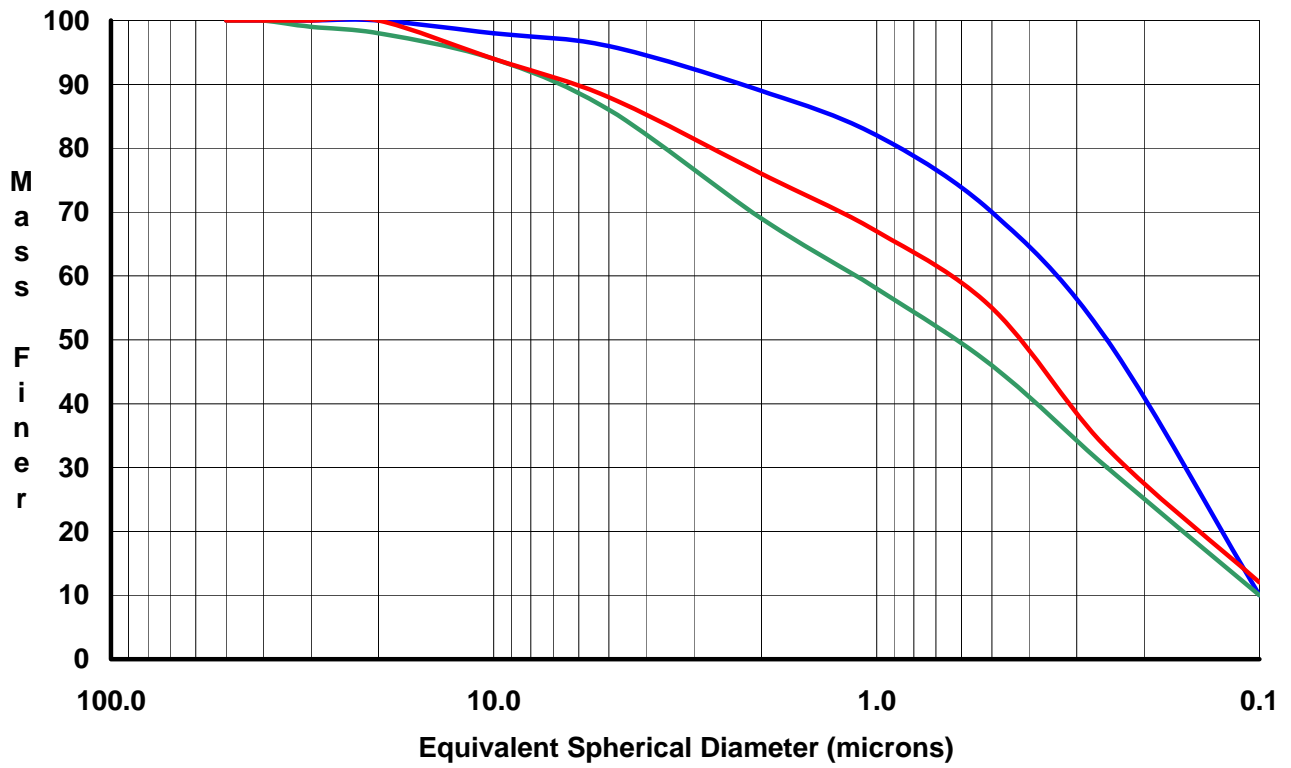
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Particle Size Distribution SediGraph 5100



— Hard Clay — Soft Clay — Hard Clay/Soft Clay Blend

Diameter	Hard Clay	Soft Clay	Hard Clay/Soft Clay Blend
50	100	100	100
40	100	100	100
30	100	99	100
20	100	98	100
15	99	96	100
10	98	94	94
5	96	86	85
2	88	69	72
1	82	58	64
Median Diameter	0.28 microns	0.62 microns	0.42 microns