

KAOLIN CLAY

Ceramics

TECHNICAL DATA

Vanderbilt Minerals, LLC offers several grades of air-floated kaolin. Ceramics applications of kaolin clay include refractories, sanitaryware, tableware, artware, ceramic tile, ceramic glazes, ceramic fibers, and ceramic proppants. Vanderbilt Minerals' kaolin clays are mined and milled in South Carolina and offer a highly consistent chemistry and mineralogy. **PEERLESS® 2** Clay is a clean, low iron kaolin that is well crystallized and has a surface area of about 16 m²/g. In addition to our **PEERLESS** kaolin, we offer a poorly crystallized kaolin, **DIXIE CLAY®**, which is slightly higher in iron oxide and a surface area of 26 m²/g.

TYPICAL COMPOSITION

Typical Chemical Analysis (calculated as oxides)

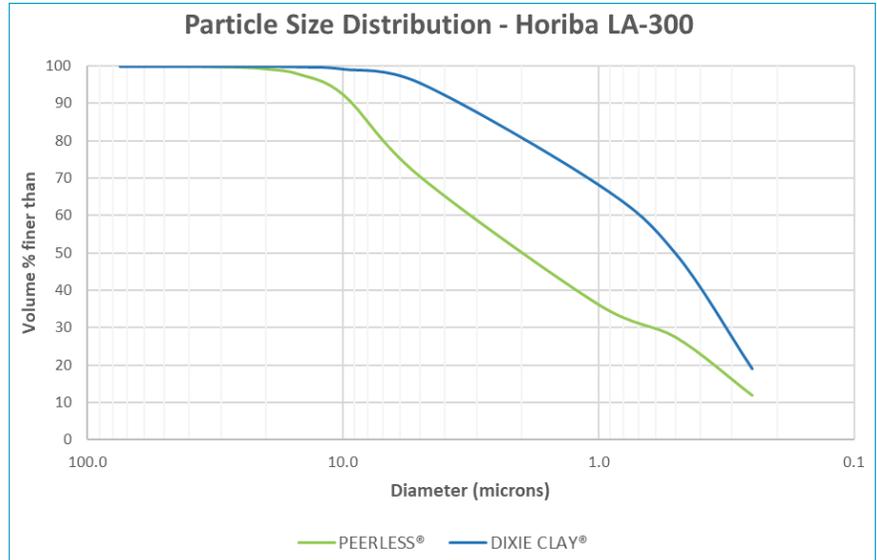
	PEERLESS® 2	DIXIE CLAY®
Silicon Dioxide (SiO ₂)	45.2%	45.7%
Aluminum Oxide (Al ₂ O ₃)	37.5%	36.1%
Iron Oxide (Fe ₂ O ₃)	0.7%	1.6%
Titanium Dioxide (TiO ₂)	1.4%	1.4%
Calcium Oxide (CaO)	<0.01%	<0.01%
Potassium Oxide (K ₂ O)	0.34%	0.35%
Magnesium Oxide (MgO)	0.12%	0.13%
Loss on ignition (1000°C)	13.8%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

TYPICAL PROPERTIES

	PEERLESS® 2	DIXIE CLAY®
Density @ 25°C, g/cc	2.6	2.6
Surface Area, m ² /g	16	26
G. E. Brightness (TAPPI T 646)	75	71
325 Mesh residue	0.3%	<0.1%
Oil absorption (ASTM D 281)	33	39
Horiba PSD		
D 10	0.27 µm	0.20 µm
D 50	2.55 µm	0.55 µm
D 90	9.61 µm	3.52 µm
D 95	12.39 µm	4.87 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:

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