

**Sodium Bentonite**  
**Air Classified USP/NF & CTFA**

Revised 10/24/01

**VOLCLAY® NF-BC**

<b>General Description</b>	High-purity, air-classified sodium bentonite, selectively mined, consisting of micronized particles and supplied as a free-flowing powder.		
<b>Functional Use</b>	Suspending agent, viscosifier, binder and emulsion stabilizer for cosmetics, pharmaceuticals, and personal care products. Specifically used when darker color is desired for formulations.		
<b>Purity</b>	This mineral is specially processed to control both purity and performance. Volclay NF-BC meets all requirements set forth by the USP 24 - NF 19 for Bentonite.		
<b>Microbial Plate Count</b>	Aerobic microbial plate count does not exceed 100 cfu/g. No presence of E. coli, S. aureus, Salmonella sp. or P. aeruginosa.		
<b>Solubility</b>	Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.		
<b>Gel Formation</b>	Max 2 mls	<b>Texture</b>	Soft, slippery
<b>Moisture</b>	5 - 8% as shipped	<b>Odor</b>	None
<b>Viscosity</b>	8 - 30 cps @ 6.25% solids	<b>Taste</b>	None
<b>Spec. Gravity</b>	2.6	<b>Color</b>	Gray to Tan
<b>Free Swell</b>	Minimum 24 mls	<b>pH</b>	8.5-10.5 @ 2% solids
<b>Dry Particle Size</b>	Minimum 99.00% finer than 200 mesh (74 microns).		
<b>Wet Particle Size</b>	Minimum 99.75% finer than 200 mesh (74 microns). Minimum 99.00% finer than 325 mesh (44 microns).		
<b>Elemental Composition</b>	Typical analysis – moisture free.		
	SiO <sub>2</sub>	69.56 %	
	Al <sub>2</sub> O <sub>3</sub>	20.69 %	
	MgO	2.70 %	
	Fe <sub>2</sub> O <sub>3</sub>	4.85 %	
	CaO	1.30 %	
	Na <sub>2</sub> O	2.43 %	
	K <sub>2</sub> O	0.30 %	
	LOI	4.80 %	
<b>Packaging</b>	4-ply poly-lined boxes, moisture resistant, 50 pound net.		

**Disclaimer:** The information and data contained herein are believed to be accurate and reliable. ACC makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information