



VOLCLAY® NF-BC

General High-purity air-classified sodium bentonite, selectively minded, consisting of

Description: micronized particles and supplied as a free-flowing powder.

Functional Use: Suspending agent, viscosifier, binder and emulsion stabilizer for cosmetics, pharmaceuticals

personal care products. Specifically used when darker color is desired for formulations.

Purity: This mineral is specially processed to control both purity and performance. Volclay NF-BC

meets all requirements set forth by the current USP/NF monograph for Bentonite.

Solubility: Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750

sq. meters when fully dispersed.

Dry Particle Size: Minimum 99.00% finer than 200 mesh (74 microns). Wet Particle Size: Minimum 99.75% finer than 200 mesh (74 microns).

Minimum 99.00% finer than 325 mesh (44 microns).

Test Description	Specification	<u>Method</u>
pH (2% solids)	9.5 - 10.5	TP-6503
Viscosity (6.25% solids)	8 – 30 cps	TP-1022
L.O.D.	5.0 - 8.0%	TP-6507
Free Swell	24 mls min	TP-6514
Gel Formation	2 mls max	TP-6506
Fineness of Powder	No grit felt	Current USP/NF
I.D. Glycol Oriented	15.0 - 17.2 A	Current USP/NF
I.D. Random Powder	1.492 - 1.504 A	Current USP/NF
Arsenic	5 ppm max	ASG-CWC-SW006/ASG-ICP-103
Lead	40 ppm max	ASG-CWC-SW006/ASG-ICP-103
Microbial Limits		
Aerobic Place Count	<10 CFU/g	USP <61/62>
Yeast & Mold	<10 CFU/g	USP <61/62>
P. aeruginosa	Negative / 10g	USP <61/62>
S. aureus	Negative / 10g	USP <61/62>
E. coli	Negative / 10g	USP <61/62>
Salmonella	Negative / 10g	USP <61/62>
Gram Negatives	Negative / 10g	USP <61/62>

Packaging: 4-ply poly-lined package in boxes, moisture resistant, 50 pound net.

Elemental Typical values listed are not to be considered as rigid specifications.

Composition: SiO₂ 69.56% CaO 1.30%

