

Sodium Bentonite
Air Classified

Revised 05/25/01

VOLCLAY[®] Rheospan

General Description	High-purity, air-classified sodium bentonite, selectively-mined, consisting of micronized particles and supplied as a free-flowing powder.		
Functional Use	This high-purity montmorillonite is typically used as a suspending agent, viscosifier, binder, and emulsion stabilizer.		
Purity	Hydrous aluminum silicate, air purified to concentrate the finest montmorillonite fraction from the bentonite ore. Contains traces of feldspar, quartz, calcite, and gypsum.		
Solubility	Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.		
Moisture	12% maximum as shipped	Texture	Soft, slippery
Viscosity	20 cps min. @ 6.25% solids	Odor	None
Spec. Gravity	2.6	Taste	None
Color	Gray to Tan	pH	8.5-10.5 @ 2% solids
Dry Particle Size	Minimum 99.00% finer than 200 mesh (74 microns).		
Wet Particle Size	Minimum 99.70% finer than 200 mesh (74 microns). Minimum 99.00% finer than 325 mesh (44 microns).		
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$		
Elemental Composition	Typical analysis – moisture free.		
	SiO ₂	69.56%	
	Al ₂ O ₃	20.69%	
	MgO	2.70%	
	Fe ₂ O ₃	4.85%	
	CaO	1.30%	
	Na ₂ O	2.43%	
	K ₂ O	0.30%	
	LOI	4.80%	
Packaging	5-ply multi-wall poly-lined bags, 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