Sodium Bentonite
Air Classified

Revised 05/25/01

VOLCLAY®HPM-20

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	8-30 cps @ 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 99.75% finer than 200 mesh (74 microns).
Minimum 99.00% finer than 325 mesh (44 microns).

Chemical Formula — Dioctahedral smectite, an expanding layer silicate:
$(Na,Ca)_{0.33}(Al_{1.67}Mg_{0.33})Si_4O_{10}(OH)_2 \cdot nH_2O$

Elemental Composition — Typical analysis – moisture free.

SiO_2	69.56%
Al_2O_3	20.69%
MgO	2.70%
Fe_2O_3	4.85%
CaO	1.30%
Na_2O	2.43%
K_2O	0.30%
LOI	4.80%

Packaging — 5-ply multi-wall poly-lined bags, moisture-resistant, 50 pound net.

American Colloid Company 2870 Forbs Avenue Hoffman Estates, IL 60192 **847.851.1700** 800.426.5564 Fax 847.851.1699 **www.colloid.com**