

Revised: 04/25/00

**White Bentonite**  
**Hydroclassified**  
**USP/NF & CTFA**

## POLARGEL<sup>®</sup> HV

**General Description:**

A specially processed, water-washed product, Polargel HV is a selectively mined sodium bentonite clay supplied as a white microfine powder.

**Functional Use:**

Suspending agent, viscosifier, binder and emulsion stabilizer for cosmetics, Pharmaceuticals and personal care products. Promotes excellent rheology and fine body to enhance a broad range of formulations. Polargel HV delivers high viscosity to be incorporated in low solids preparations.

**Purity:**

This mineral is specially processed to control both purity and performance. Polargel HV meets all requirements set forth by the USPXXIII/NFXVIII for Bentonite.

**Microbial Limits Plate Count:**

Aerobic microbial plate count is typically 100 cfu/g. No presence of E. coli, S. aureus, Salmonella sp. or P. aeruginosa.

**Solubility:**

Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.

**Brightness (G.E.):**

80 minimum

**Texture:**

Soft, slippery

**Odor:**

None

**Taste:**

None

**Moisture:**

5-8% as shipped

**Color:**

White

**Swelling Power:**

Minimum 24 mls

**Density:**

2.6 g/cm<sup>3</sup>

**Viscosity:**

1200–2400 cps. (at 5% solids)

**pH:**

2% dispersion 9.5-10.5

**Gel Formation:**

2 mls max

**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)

**Elemental Analysis:**

Typical values listed are not to be construed as rigid specifications.

SiO <sub>2</sub>	75.76%
Al <sub>2</sub> O <sub>3</sub>	16.04%
MgO	1.47%
Fe <sub>2</sub> O <sub>3</sub>	1.67%
CaO	1.86%
Na <sub>2</sub> O	1.70%
K <sub>2</sub> O	1.03%
LOI	9.40%

All metals are expressed as oxides, which are complexed in the mineral.

**Packaging:**

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