



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

Revised: 04/25/00

## POLARGEL<sup>®</sup> NF

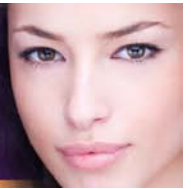
- General Description:** A specially processed, water-washed product, Polargel NF is a selectively mined sodium bentonite clay supplied as a white microfine powder.
- Functional Use:** Suspending agent, viscosifier, binder and emulsion stabilizer for cosmetics, Pharmaceuticals and personal care products. Promotes excellent rheology and fine body to enhance a broad range of formulations.
- Purity:** This mineral is specially processed to control both purity and performance. Polargel HV meets all requirements set forth by the USPXXIII/NFXVIII for Purified 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.
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|---------------------------|----------------------------|-----------------|------------------------|
| <b>Brightness (G.E.):</b> | 80 minimum                 | <b>Texture:</b> | Soft, slippery         |
| <b>Odor:</b>              | None                       | <b>Taste:</b>   | None                   |
| <b>Moisture:</b>          | 8% maximum as shipped      | <b>Color:</b>   | White                  |
| <b>Acid Demand:</b>       | 4.0 pH Max                 | <b>Density:</b> | 2.6 g/cm <sup>3</sup>  |
| <b>Viscosity:</b>         | 40-200 cps. (at 5% solids) | <b>pH:</b>      | 5% dispersion 9.0-10.0 |
| <b>Arsenic:</b>           | 3 ppm max                  | <b>Lead:</b>    | 15 ppm 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>	75.44%
Al <sub>2</sub> O <sub>3</sub>	15.28%
MgO	2.54%
Fe <sub>2</sub> O <sub>3</sub>	1.65%
CaO	2.29%
Na <sub>2</sub> O	1.25%
K <sub>2</sub> O	1.00%
LOI	9.20%

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.



**Links to Products Containing Polargel NF:**

Lipstick 4.60% Polargel NF.doc  
Dandruff Control Shampoo.doc  
Calamine Lotion.doc  
Face Mask II.doc