



**Magnesium Aluminum  
Silicate (MAS)  
Hydroclassified  
USP/NF & CTFA**

## MAGNABRITE® HV

- General Description:** Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion.
- Functional Use:** Stabilizing, emulsifying and suspending agent for use in cosmetics, pharmaceuticals and personal care products. Magnabrite HV is produced to deliver high viscosity and excellent rheology to be incorporated in low solids formulations.
- Purity:** This mineral is specially processed to control both purity and performance. Magnabrite HV meets all requirements set forth by the USP XXIII/NF XVIII for Magnesium Aluminum Silicate, Type IC.
- 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> | 78 minimum                     | <b>Texture:</b> | Soft, slippery        |
| <b>Acid Demand:</b>       | 4.0 pH max                     | <b>Odor:</b>    | None                  |
| <b>Moisture:</b>          | 8% maximum as shipped          | <b>Taste:</b>   | None                  |
| <b>Viscosity:</b>         | 800 - 2200 cps. (at 5% solids) | <b>Color:</b>   | White to off-white    |
| <b>Al/Mg Ratio:</b>       | 0.5 -1.2                       | <b>Density:</b> | 2.6 g/cm <sup>3</sup> |
| <b>pH:</b>                | 5% dispersion 9.0-10.0         |                 |                       |
- Dry Particle Size:** White flakes that are typically not larger than 20 mesh.
- 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>	70.84%
Al <sub>2</sub> O <sub>3</sub>	10.31%
MgO	9.17%
Fe <sub>2</sub> O <sub>3</sub>	1.56%
CaO	5.23%
Na <sub>2</sub> O	1.14%
K <sub>2</sub> O	0.75%
LOI	9.50%

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.