



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

## MAGNABRITE® HS

**General Description:** Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion.

**Functional Use:** Suspension agent, thickening and binder for use in pharmaceuticals, cosmetics and personal care products. Magnabrite HS was developed to hydrate easily in hot or cold water, producing high electrolyte stability.

**Purity:** This mineral is specially processed to control both purity and performance. Magnabrite HS 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.

<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>	40-200 cps. (at 5% solids)	<b>Color:</b>	White to off-white
<b>Al/Mg Ratio:</b>	3.5-5.5	<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>	77.01%
Al <sub>2</sub> O <sub>3</sub>	14.78%
MgO	2.44%
Fe <sub>2</sub> O <sub>3</sub>	1.76%
CaO	1.25%
Na <sub>2</sub> O	2.04%
K <sub>2</sub> O	0.17%
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.

