



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

Revised: 04/25/2009

MAGNABRITE® S

- General Description:** Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion.
- Functional Use:** Stabilizing and suspending agent for cosmetic, toiletry and pharmaceutical formulations. Especially useful for acidic preparations. Magnabrite S has low acid demand and high acid compatibility.
- Purity:** This mineral is specially processed to control both purity and performance. Magnabrite S meets all requirements set forth by the USP XXIII/NF XVIII for Magnesium Aluminum Silicate, Type IA.
- 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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|---------------------------|-------------------------------|-----------------|-----------------------|
| Brightness (G.E.): | 78 minimum | Texture: | Soft, slippery |
| Acid Demand: | 4.0 pH max | Odor: | None |
| Moisture: | 8% maximum as shipped | Taste: | None |
| Viscosity: | 225 - 600 cps. (at 5% solids) | Color: | White to off-white |
| Al/Mg Ratio: | 0.5 - 1.2 | Density: | 2.6 g/cm ³ |
| pH: | 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 ₂	70.89%
Al ₂ O ₃	10.32%
MgO	9.17%
Fe ₂ O ₃	1.53%
CaO	5.23%
Na ₂ O	1.07%
K ₂ O	0.76%
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.