



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

## MAGNABRITE® F

- General Description:** Highly purified, selected blend of white smectite clays supplied as a free-flowing powder.
- Functional Use:** For disintegrating, binding and suspending. Typically used in tablets, ointments and pastes. Especially useful for emulsion stabilization, and excellent for large tablets where the active ingredients are the major bulk of the tablet. Used when dry incorporation is essential for preparations.
- Purity:** This mineral is specially processed to control both purity and performance. Magnabrite F meets all requirements set forth by the USP XXIII/NF XVIII for Magnesium Aluminum Silicate, Type IB.
- Microbial Limits Plate Count:** Aerobic microbial plate 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>         | 150 - 450 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:** 95% finer than 325 mesh (44 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>	70.89%
Al <sub>2</sub> O <sub>3</sub>	10.32%
MgO	9.17%
Fe <sub>2</sub> O <sub>3</sub>	1.53%
CaO	5.23%
Na <sub>2</sub> O	1.07%
K <sub>2</sub> O	0.76%
LOI	9.10%

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.

