



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

MAGNABRITE® K

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 K has low acid demand and high acid compatibility.

Purity: This mineral is specially processed to control both purity and performance. Magnabrite K meets all requirements set forth by the USP XXIII/NF XVIII for Magnesium Aluminum Silicate, Type IIA.

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.

Brightness (G.E.):	78 minimum	Texture:	Soft, slippery
Acid Demand:	4.0 pH max	Odor:	None
Moisture:	8% maximum as shipped	Taste:	None
Viscosity:	100 - 300 cps. (at 5% solids)	Color:	White to off-white
Al/Mg Ratio:	1.4 -2.8	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	72.92%
Al ₂ O ₃	12.39%
MgO	6.48%
Fe ₂ O ₃	1.66%
CaO	4.06%
Na ₂ O	0.87%
K ₂ O	0.86%
LOI	9.80%

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.

