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

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.

Brightness (G.E.): 78 minimum Texture: Soft, slippery

Acid Demand:4.0 pH maxOdor:NoneMoisture:8% maximum as shippedTaste: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.