



HEMINGS

NANJING HEMINGS NEW MATERIAL

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Magnesium Aluminum Silicate NF Type IIA

(Hatorite® K)

INCI Name: Magnesium Aluminum Silicate

Description and Application

Hatorite K clay is used in pharmaceutical oral suspensions at acid pH and in hair care formulas containing conditioning ingredients. It has low acid demand and high acid and electrolyte compatibility. It is used to provide good suspension at low viscosity. Typical use levels are between 0.5% and 3%.

Specifications

Item	Specification	Test Method
*Appearance	Off-white granules or powder	-----
*Acid Demand	4.0 maximum	Current Volume USP/NF
*Al/Mg Ratio	1.4-2.8	Current Volume USP/NF

*Arsenic Content	3 ppm maximum	Current Volume USP/NF
*Lead Content	15 ppm maximum	Current Volume USP/NF
*Microbiology	**No more than 100 cfu/g bacteria **No more than 100 cfu/g fungi & yeast **No Escherichia coli **No Salmonella sp. **No Staphylococcus aureus **No Pseudomonas aeruginosa **No Gram negative organisms	Current Volume USP/NF Current Volume USP/NF Current Volume USP/NF Current Volume USP/NF Current Volume USP/NF Current Volume USP/NF T-968
*Loss on drying	8.0% maximum	Current Volume USP/NF
*pH, 5% Dispersion	9.0-10.0	Current Volume USP/NF
*Viscosity, Brookfield, 5% Dispersion	100-300 cps	Current Volume USP/NF
*X-ray Diffraction	Peaks between 1.492-1.504, 1.510- 1.540, and 15.0-17.2 Angstroms	Current Volume USP/NF

Storage

Hatorite K is hygroscopic and should be stored under dry condition.