

PRODUCT DATA SHEET:

Mineral Thickeners



Life Sciences

Magnesium Aluminum Silicate MAS 103 USP / NF / BC

MAS 103 Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion. Stabilizing and suspending agent for cosmetic, toiletry and pharmaceutical formulations. Especially useful for acidic preparations. MAS 103 has low acid demand and high acid compatibility. MAS 103 is stable in formulas with a pH range of 2.0 - 5.0. MAS 103 meets all requirements set forth by the current USP for Magnesium Aluminum Silicate, Type IIA.

TYPICAL PHYSICAL PROPERTIES	
Color	White to Off-White
Dry Brightness (min)	78
Viscosity (cps @ 5%)	100 - 300
Specific Gravity	2.60
Acid Demand (max pH)	4.0
Al/Mg Ratio	1.4 - 2.8
% Thru 325 Mesh (wet)	99.00
% Thru 200 Mesh (wet)	99.75

TYPICAL CHEMICAL PROPERTIES	
SiO ₂ - Silicon Dioxide (%)	72.92
Al ₂ O ₃ - Aluminum Oxide (%)	12.39
MgO - Magnesium Oxide (%)	6.48
CaO - Calcium Oxide (%)	4.06
Fe ₂ O ₃ - Ferric Oxide (%)	1.66
Na ₂ O - Sodium Oxide (%)	0.87
K ₂ O - Potassium Oxide (%)	0.86
Loss on Ignition (%)	9.80
Moisture (% max)	8.0
pH Value	9.0 - 10.0

BSI Code: MAS 103

INCI: Magnesium Aluminum Silicate

C.A.S. Number: 1327-43-1

Monographs: USP, NF

Type: IIA

Texture: Soft, Slippery, Odorless, Tasteless

Microbial Limits Plate Count: Aerobic microbial plate count is typically 100 cfu/g. No presence of *S. aureus*, *E. coli*, *Salmonella* sp. or *P. aeruginosa*.

Storage: Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

Handling Precautions: Please refer to the MAS 103 USP / NF / BC Safety Data Sheet.

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