

PRODUCT DATA SHEET:

Mineral Thickeners



Life Sciences

Magnesium Aluminum Silicate MAS 101 USP / NF / BC

MAS 101 Highly purified, selected blend of white smectite clays supplied as free flowing powder. Designed 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. MAS 101 meets all requirements set forth by the current USP for Magnesium Aluminum Silicate, Type IB.

TYPICAL PHYSICAL PROPERTIES	
Color	White to Off-White
Dry Brightness (min)	78
Viscosity (cps @ 5%)	150 - 450
Specific Gravity	2.60
Acid Demand (max pH)	4.0
Al/Mg Ratio	0.5 - 1.2
% Thru 325 Mesh (wet)	99.00
% Thru 200 Mesh (wet)	99.75

TYPICAL CHEMICAL PROPERTIES	
SiO ₂ - Silicon Dioxide (%)	70.89
Al ₂ O ₃ - Aluminum Oxide (%)	10.32
MgO - Magnesium Oxide (%)	9.17
CaO - Calcium Oxide (%)	5.23
Fe ₂ O ₃ - Ferric Oxide (%)	1.53
Na ₂ O - Sodium Oxide (%)	1.07
K ₂ O - Potassium Oxide (%)	0.76
Loss on Ignition (%)	9.10
Moisture (% max)	8.0
pH Value	9.0 - 10.0

BSI Code: MAS 101

INCI: Magnesium Aluminum Silicate

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

Monographs: USP, NF

Type: IB

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 101 USP / NF / BC Safety Data Sheet.

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