

## PRODUCT DATA SHEET:

### Mineral Thickeners



Life Sciences

### Magnesium Aluminum Silicate MAS 100 USP / NF / BC

**MAS 100** Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion. General purpose grade; for all types of personal care, pharmaceutical, veterinary and industrial products. MAS 100 meets all requirements set forth by the current USP for Magnesium Aluminum Silicate, Type IA.

TYPICAL PHYSICAL PROPERTIES	
Color	White to Off-White
Dry Brightness (min)	78
Viscosity (cps @ 5%)	225 - 600
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 <sub>2</sub> - Silicon Dioxide (%)	70.89
Al <sub>2</sub> O <sub>3</sub> - Aluminum Oxide (%)	10.32
MgO - Magnesium Oxide (%)	9.17
CaO - Calcium Oxide (%)	5.23
Fe <sub>2</sub> O <sub>3</sub> - Ferric Oxide (%)	1.53
Na <sub>2</sub> O - Sodium Oxide (%)	1.07
K <sub>2</sub> O - Potassium Oxide (%)	0.76
Loss on Ignition (%)	9.20
Moisture (% max)	8.0
pH Value	9.0 - 10.0

**BSI Code:** MAS 100

**INCI:** Magnesium Aluminum Silicate

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

**Monographs:** USP, NF

**Type:** IA

**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 100 USP / NF / BC Safety Data Sheet.

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