

## PRODUCT DATA SHEET:

### Mineral Thickeners



Life Sciences

### Magnesium Aluminum Silicate MAS 102 USP / NF / BC

**MAS 102** Highly purified, selected blend of white smectite clays supplied as small flakes to ease dispersion. Stabilizing, emulsifying and suspending agent for use in cosmetics, pharmaceuticals and personal care products. MAS 102 is produced to deliver high viscosity and excellent rheology to be incorporated in low solids formulations. MAS 102 meets all requirements set forth by the current USP for Magnesium Aluminum Silicate, Type IC.

TYPICAL PHYSICAL PROPERTIES	
Color	White to Off-White
Dry Brightness (min)	78
Viscosity (cps @ 5%)	800 - 2200
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 (%)	70.84
Al <sub>2</sub> O <sub>3</sub> - Aluminum Oxide (%)	10.31
MgO - Magnesium Oxide (%)	9.17
CaO - Calcium Oxide (%)	5.23
Fe <sub>2</sub> O <sub>3</sub> - Ferric Oxide (%)	1.56
Na <sub>2</sub> O - Sodium Oxide (%)	1.14
K <sub>2</sub> O - Potassium Oxide (%)	0.75
Loss on Ignition (%)	9.50
Moisture (% max)	8.0
pH Value	9.0 - 10.0

**BSI Code:** MAS 102

**INCI:** Magnesium Aluminum Silicate

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

**Monographs:** USP, NF

**Type:** IC

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

While the data presented in this information sheet reflects the present state of our knowledge and is believed to be accurate and reliable, it is provided without liability as a courtesy only and is to be used and relied upon at the reader's sole risk. Readers should make their own determination as to the suitability of any product for a particular use. We recommend that readers conduct their own product trials before using any particular product. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties rights. The recommendations contained herein do not constitute a warranty, either express or implied, as to the fitness or suitability of any product for a particular purpose. For more information and assistance, please contact Technical Services at [BSL\\_regulatory\\_dept@brenntag.com](mailto:BSL_regulatory_dept@brenntag.com)

**Brenntag Specialties, LLC / 1 Cragwood Rd, Suite 302, South Plainfield, NJ 07080 / 800.732.0562**