



Magnesium Stearate

CAS No.: $\text{Mg}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$

Formula: SiO_2

DESCRIPTION

Magnesium stearate is a fine, white powder composed of magnesium salts of stearic acid. It is hydrophobic and insoluble in water, providing lubricating, release, and water-repellent properties. Its low melting and softening points make it an ideal additive for improving flow, preventing caking, and enhancing surface finish in industrial and formulation processes.

KEY FEATURES

- Fine white powder with low bulk density
- Excellent lubricant and anti-adherent properties
- Improves powder flow in tablet and capsule production
- Chemically inert with good thermal stability
- Widely used in pharmaceuticals, nutraceuticals, and cosmetics
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APPLICATIONS

- As a release and lubricant agent in pharmaceutical and cosmetic formulations
- As a rheological modifier and stabilizer in paints, coatings, and printing inks
- As a water-repellent and anti-caking additive in cementitious and construction materials
- As a flow enhancer in powdered products and plastic masterbatches

TYPICAL SPECIFICATIONS

Parameter	Unit	Specification
Melting Point	°C	120 – 140
Softening Point	°C	95 – 105
Moisture Content	%	≤ 4.0
Magnesium (Mg) Content	%	≥ 4.0
Free Fatty Matter	%	≤ 1.0
Retained on 300 Mesh Sieve	%	≤ 0.2



**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- Available in 25 kg bags
- 1,000 kg super sacks.
- Other packaging sizes may be available on request.

SHELF LIFE

- Recommended storage temperature below 40 °C.
- Shelf life is at least 12 months under normal conditions.

STORAGE

- Store in a cool, dry area away from direct sunlight and sources of moisture.
- Keep the packaging tightly sealed to prevent contamination and ensure product stability.

SAFETY & HANDLING

- Avoid dust generation and inhalation during use. Use adequate ventilation and wear appropriate PPE such as gloves, goggles, and dust masks.
- Refer to the Safety Data Sheet (SDS) for detailed first-aid, handling, and disposal guidelines.