

Magnesium Stearate

Tablet lubricant

Product Description

Magnesium Stearate is the most widely used tablet lubricant in pharmaceutical solid dosage forms, preventing sticking to punches and dies. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2915.70

CAS Number: 557-04-0

Classification: Pharmaceutical Excipient — L

Parameter	Specification	Test Method
Appearance	Fine white powder	Visual
Magnesium Content	4.0–5.0%	Complexometric titration
Identification	Conforms to reference standard	IR
Loss on Drying	"d 6 . 0 %	USP <731>
Acid Value	"d 6 m g K O H / g	AOCS Cd 3d-63
Heavy Metals	"d 2 0 p p m	USP <231>
Microbial Limits (TAMC)	"d 1 0 0 0 c f u / g	USP <61>

Physical Properties

Appearance: Fine white powder

Molecular Formula: $C_{18}H_{34}O_2$

Molecular Weight: 591.27 g/mol

Solubility: Practically insoluble in water; slightly soluble in ethanol

Melting Point: 88–94°C

Packing: 25 kg HDPE bags with polyethylene inner liner; fibre drums available

Storage: Store in a cool, dry, well-ventilated area away from moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Dust may cause respiratory irritation
- Combustible dust