

Technical Data Sheet

Product name: **Pharmaceutical excipients Magnesium stearate USP grade**

CAS Number: 557-04-0

Application field: Pharmaceutical grade

M.F.: C₃₆H₇₀MgO₄

M.W.: 591.24

Physical and chemical properties

This product is color loose fine powder, feel smooth, insoluble in water, ethanol and ether, soluble in hot water, ether, acid decomposition into stearic acid and the corresponding magnesium salt. Solubility in water at room temperature 77-79mg/L, soluble in hot ethanol. In case of acid decomposition into stearic acid and the corresponding magnesium salts.

Function

- Magnesium stearate is mainly used as a lubricant, anti adhesive, and flow aid. Specially suitable for granulation of oil and paste drugs, the resulting particles have good fluidity and compressibility. Used as a flow aid in direct compression.
- It can also be used as a filter aid, clarifying agent, and foaming agent, as well as a suspension aid and thickening agent for liquid formulations.

Specification

Item	Testing Standard (USP35-NF30)	
Type	MS-4	MS-6
Appearance	This product is a white fine powder with a smooth and sand-free feeling. It has a slippery feeling when it comes into contact with the skin	
Identification	Complies with standard	Complies with standard
Magnesium, %	4.0-5.0	4.0-5.0
PH	Complies with standard	Complies with standard
Chloride, %	≤0.1	≤0.1
Sulphate, %	≤0.1	≤0.1
Loss on Drying, %	≤6.0	≤6.0
Lead, ppm	≤10	≤10
Nickel (Ni), ppm	≤5	≤5
Cadmium (Cd), ppm	≤3	≤3
Stearic acid, %	≥40.0	≥65.0
Stearic acid & Palmitic acid, %	≥90.0	≥90.0

Packing

External woven bag, lined with high-pressure polyethylene film 20 kg/bag, or as to clients requirements.