

Magnesium Stearate



Magnesium Stearate is a fine white powder that acts as a dry lubricant for capsules and tablets. This excipient increases flow, which ensures efficiency through the manufacturing process.

This powder is a magnesium salt that also has stearic acid, which is an 18-carbon saturated fat. Stearates represent a natural part of every kind of animal and vegetable fat and is important for consumer familiarity and adds an element of safety to your product.

As a lubricant, Magnesium Stearate lessens friction between a tablet's surface and the die wall during ejection, prevents materials from sticking to parts of the machine, and increases flow by reducing friction amongst the powder particles themselves.

Magnesium is also an important part of health. As an essential mineral, it helps keep blood sugar and blood pressure at the right levels, helps form DNA and protein, and keeps muscles and nerves functioning correctly.

Main Benefits of Magnesium Stearate

- **Excellent Lubricant** - Lubricants are crucial in tableting, and Magnesium Stearate is one of the most effective dry lubricants.
- **Various Formulation Functions** - Magnesium Stearate is also an emulsifier, anti-caking agent, thickening agent, and anti-foaming agent.
- **Adverse to Change in Process Variables** - Process variables (flow, pressure, temperature, etc.) are a dynamic part of formulations. If any changes occur, it should not affect the manufacturing process.
- **Kosher and Halal** - LFA's Magnesium Stearate is certified kosher and halal. Magnesium Stearate is also GRAS (Generally Recognized As Safe) by the FDA.

Specifications

CAS number	557-04-0
Molecular formula	$Mg(C_{18}H_{35}O_2)_2$
Appearance	Light white powder
Physical state	Solid
Storage	Store at room temperature
Melting point	200 °C
Density	1.026 g/cm ³
Bulk density	0.34 g/cm ³
Molecular weight	591.27 g/mol