

# Stearic Acid



Stearic Acid powder is a dry-lubricant that will prevent dry powders from sticking to the metal on your tablet press, capsule filler, or even powder mixer. It is the perfect solution for sticky products or those with high ejection forces.

Found in animal fats and plant oil, Stearic Acid also occurs naturally in the human body. It has been found to aid in regulating energy metabolism. Besides its role as a lubricant, Stearic Acid possesses binding properties for tablets as well.

Combining Stearic Acid and Magnesium Salts results in another commonly used dry-lubricant called Magnesium Stearate. The benefit of using Stearic Acid over Magnesium Stearate is the amount that can be used. With typical formulations, the amount of Magnesium Stearate in a formula should not exceed 2%, or you may experience tablet capping. Stearic Acid can make up to 7% in formulas without any negative results. This high amount of lubrication is perfect for formulas including large amounts of sugars, kratom or other sticky products.

This product is generally the top choice as a dry lubricant.

## Main Benefits of Magnesium Stearate

- **Excellent Lubricant** - Lubricants are crucial in tableting, and Stearic Acid is one of the most effective dry lubricants.
- **Strong Binding Properties** - Stearic Acid is not only a dry-lubricant that's perfect for sticky formulations, but also functions as a binder to ensure tablets are hard and durable.
- **Helps with Sticky Formulations** - Feel free to include sticky ingredients that might usually cause issues with your machine operation, such as sugars, kratom, starches, coffee, and more.
- **Kosher and Halal** - LFA's Stearic Acid is certified kosher and halal. Stearic Acid is also GRAS (Generally Recognized As Safe) by the FDA.

## Specifications

Calories per gram	9.5
Molecular formula	C18H36O2
Description	Powder, opaque, waxy, fine, white
Bulk density	0.253 g/cm <sup>3</sup>
Loss of moisture on drying	0.20%
Tapped bulk density	0.38 g/cm <sup>3</sup>
Carr's index	33.46
Hausner ratio	1.5