

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriyat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



LITHIUM STEARATE MICRONISED

CAS Number	4485-12-5
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Chemical Name and Synonyms

IUPAC Chemical Name	Lithium octadecanoate
Common Industry / Trade Synonyms	Lithium stearate / Stearic acid lithium salt

Physical and Chemical Properties

Property	Description
Appearance	White to off-white fine powder
Density	~1.00–1.05 g/cm ³
Melting Range	220–225 °C (decomposition)
Solubility	Insoluble in water; dispersible in hydrocarbons and oils
Particle Size Distribution (Micronised Grade)	D50: 5–8 µm
	D90: ≤ 15 µm
	D99: ≤ 25 µm

Known Uses (TOP 10)

High-temperature grease formulations	Engineering plastic compounds
Thermoplastic processing systems	Masterbatch production
Rubber compounds	Coated paper and specialty coatings
Lubricant thickener systems	Specialty industrial formulations

Known Applications

Flow modifier	Lubricant
Processing aid	Release agent
Thickener	

Extra-Ordinary Benefits (Micronised Grade Specific)

- Faster dispersion in high-viscosity systems
- Improved homogeneity in polymer and grease matrices
- Reduced risk of agglomeration during dry blending
- Improved consistency at low addition levels
- Enhanced surface uniformity in thin or precision applications

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Regulatory Note

Regulatory status depends on grade, purity, and intended use. Food-contact and regional compliance listings, where applicable, are addressed in separate regulatory documentation.

Disclaimer

The information provided is for technical reference only. No warranty, express or implied, is given regarding suitability for any particular application. Users are responsible for validation, formulation design, and regulatory compliance prior to commercial use.

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