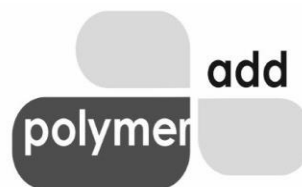


Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, 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



ZINC STEARATE (MICRONISED)

HIGH-EFFICIENCY INTERNAL + EXTERNAL LUBRICATION

CAS Number

557-05-1

Chemical Name and Synonyms

IUPAC Chemical Name:

Zinc bis(octadecanoate)

Common Industry / Trade Synonyms:

Zinc stearate

Zinc octadecanoate

Stearic acid, zinc salt

Physical and Chemical Properties

Property	Description
Appearance	White to off-white fine powder
Density	~1.09–1.15 g/cm ³
Melting Range	120–130 °C
Solubility	Insoluble in water dispersible in non-polar polymers
Particle Size Distribution (Micronised Grade)	D50: 3–7 µm D90: <15 µm D99: <25 µm

5.1 Specific Benefits

Zinc stearate is selected for high-efficiency internal and external lubrication where controlled friction reduction is required both within the polymer melt and at the polymer–metal interface.

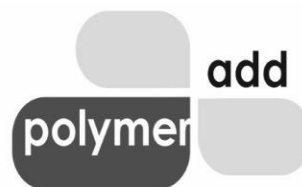
- Reduced internal friction within the polymer melt
- Reduced adhesion at polymer–metal interfaces
- Stable lubrication across polymer processing temperature ranges
- Cleaner processing with reduced tendency for metal surface fouling

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5.2 End Uses

- Injection moulding of thermoplastics
- Extrusion of polyolefins and styrenics
- Rubber moulding and compression processes
- Masterbatch and additive concentrate production
- High-speed continuous polymer processing lines

5.3 Key Physical, Chemical & Performance Parameters

- Metal soap molecular structure
- Melting range aligned with polymer processing temperatures
- High hydrophobic character
- Very low water solubility
- Controlled interfacial migration behaviour

5.4 Known Limitations

- Not intended as a primary heat stabiliser
- Dosage-dependent influence on surface appearance in highly transparent systems
- Performance dependent on polymer type and processing conditions

6) 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.

7) Disclaimer

Information provided is for technical reference only.

No warranty of fitness for a particular purpose is expressed or implied.

Users are responsible for validation, processing trials, and regulatory compliance.

Creation: January 2026

Next Technical Review: January 2028

END OF ARTICLE