

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



TECHNICAL DATA SHEET ZINC STEARATE MICRONISED Dry powder for industrial applications

PRODUCT CLASSIFICATION

Item	Description
Chemical name	Zinc stearate
Synonyms	Zinc distearate; zinc octadecanoate; zinc salt of stearic acid
CAS number	557-05-1
EC number	209-151-9
Molecular formula	$\text{Zn}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$
Molecular weight	Approximately 632.34 g/mol
Product form	Dry, micronised powder
Product description	Fine metallic soap powder for use as a processing lubricant, mould release agent, powdering agent and hydrophobic additive
Application focus	Direct incorporation into dry blends, polymer compounds, rubber compounds and other formulations requiring fine-powder distribution

PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical properties / representative values
Appearance	Fine white to off-white powder
Odour	Slight characteristic fatty odour
Melting range	Approximately 118–125°C
Moisture / loss on drying	Typically $\leq 1.0\%$
Zinc content, as elemental Zn	Approximately 10–12%
Free fatty acid	Typically $\leq 1.5\%$
Ash content	Approximately 12.8–14.2%
Bulk density	Approximately 260–360 g/L
Specific gravity	Approximately 1.1
Water solubility	Practically insoluble
Surface character	Hydrophobic
Particle form	Fine, micronised powder

Values describe representative commercial characteristics and are not guaranteed batch specifications.

USES AND APPLICATIONS

Specific applications involving dry, micronised Zinc Stearate powder

Industry or formulation	Application	Purpose of the micronised powder
PP and PE compounds	Processing lubricant, release aid and acid scavenger in suitable formulations	Supports distribution through resin, fillers and additive preblends during compounding

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Polymer masterbatches	Lubricating and dispersing aid	Assists incorporation of pigments, fillers and powder additives during mixing and melt processing
PVC dry blends	Lubricant and component of calcium/zinc stabiliser systems	Supports uniform incorporation with PVC resin and other dry ingredients
Rubber compounds	Processing lubricant and release agent	Facilitates incorporation during mixing and helps reduce sticking during processing
Rubber surface powdering	Dry separating and anti-blocking powder	Provides a fine surface coating to help prevent uncured rubber surfaces from adhering to one another
SMC and BMC compounds	Internal mould release agent	Supports distribution throughout filled resin compounds and release of moulded components
Polystyrene and EPS	Lubricating and release additive	Facilitates incorporation into blends and assists processing and release
Paints and coatings	Matting and surface-slip additive in suitable formulations	Fine particles support dispersion and help limit coarse-particle surface defects
Sanding products	Anti-loading additive	Helps reduce accumulation of sanding debris on abrasive surfaces
Dry plaster and construction mixes	Hydrophobic additive	Supports distribution through the dry mixture to help reduce water absorption

STORAGE AND HANDLING

Store in tightly closed packaging in a cool, dry, ventilated area. Protect from moisture and contamination. Keep away from heat, sparks, flames, strong oxidising agents and acids.

Use suitable dust extraction. Prevent dust accumulation and electrostatic discharge. Fine powder dispersed in air can present a combustible-dust hazard.

DISCLAIMER

The information describes typical properties and industrial applications of dry, micronised Zinc Stearate. Suitability, dosage and performance should be established under the intended formulation and processing conditions.

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