



Chemical Village CO., LTD.

20/2 (B4), Tearak Rd, Bangplee Yai, Bangplee,
Samutprakarn, Thailand 10540

Tel : 66 2757 5290 **Fax :** 66 2757 5292

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ZINC STEARATE FOR PLASTICS

Description

The product is synthesized by the advanced process called, which has high purity, good transparence and excellent thermal stability indicators and use effect of the products have reached or even surpassed the similar imported parts by petrochemical professional detection, it is widely used in the fields of the plastic raw materials, the plastics masterbatch, engineering plastics and rubber particles as nontoxic thermal stabilizer and lubricant.

Technique specifications

Name: Zinc stearte (octadecoic acid zinc)

Molecular formula: $Zn (C_{17}H_{35}COO)_2$

Molecular weight: 631

Physical and Chemical Properties

White fine powder, slippery feeling, combustible, non-toxic, density 1.095g/cm³, melting point: >118°C, not dissolved in water or ethanol but dissolved in hot organic solvents and acids; A colloidal material is formed along with the degression of the temperature after dissolved in the organic solvents and it well be decomposed to stearic acid and Zinc salts when reacting with acids.



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Item /Indicator/Type	AV	AV-1
Appearance	White fine powder	White fine powder
Melting points (°C)	120-123	118-125
Water (%)	< 0.5	< 0.5
Free fatty acid (%)	< 0.5	< 0.8
ZnO (%)	13.5 ~ 15.0	13.5 ~ 15.0
Heavy metal(PPM)	< 10	< 10
Ash specification (%)	13.5 ~ 15.0	14.0 ~ 15.5
Density (g/cm ³)	1.09	1.09
Fineness (%) by 325 mesh	99	98
Application scope	PVC,PS,PE, engineering plastics and color master batch, etc.	Engineering plastics and color master batch, etc.



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Properties and use instructions of AV series

AV plastic grade, used in color master batch as a stabilizer, dispersant and lubricant.

AV-1 industrial grade, used in the plastic processing field as a lubricant and mold-releasing agent.

It is a good lubricant for non-vulcanized materials in the rubber, which is absorbed in the rubber after dissolved in the rubber under high temperature in the sulfonation process, so it is better than the products made by inertia materials. In the PS, it is the most effective lubricant and color disperser, most importantly, it can avoid the color degradation in fusion conditions. It can promote the dispersion of color in the PP and improve on mold-releasing effect in the PE and reinforcing PET plastics; additionally, it also can be used in the phenolic resin and ABS model plastics.

Environment and toxicity

Nontoxic, biolytic; in reference to 21 CFR.863-177.2600-184.1229 (USA) or 90/128/EEC (EU)

Date: February 23, 1990 and further revised.

Packing and storage

1. 20 kg/bag, the inner packing is PE plastic bag, the outside wrapping is composite kraft paper bag

2. Should storage and transport under shady, cool and ventilated environment; Avoid acid, alkali and corrosive substances. Keep it away from the humidity, hotness, fire and corrosion.

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