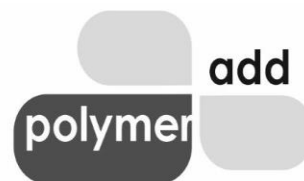


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MICRONISED ALUMINIUM STEARATE PVC & ENGINEERING PLASTIC STABILIZERS

1) Brief Introduction to Micronised Grade of Aluminum Stearate

Micronised Aluminum Stearate is a metallic soap processed into a fine, controlled particle size powder to enhance dispersion, thermal stability, and interfacial performance in PVC and engineering plastic formulations. In stabilizer systems, the micronised grade ensures uniform distribution, faster interaction with acidic degradation by-products, and improved processing consistency. Compared to conventional coarse grades, micronisation significantly improves efficiency at lower addition levels and reduces the risk of agglomeration.

2) Chemical & Physical Information (Micronised Grade)

Parameter	Description
CAS Number	7047-84-9
Chemical Name	Aluminum Stearate
Synonyms	Aluminium Stearate, Aluminum Octadecanoate
Chemical Type	Metallic Soap
Decomposition / Softening Range	100 – 150 °C
Physical Appearance	White to off-white free-flowing micronised powder

Particle Size Distribution (Micronised Grade)

Particle Size Parameter	Typical Value
D50	8 – 12 µm
D90	≤ 25 µm
D99	≤ 40 µm

3) Main Applications (Table Form)

Industry / Segment	Application
PVC Processing	Thermal stabilizer systems
Engineering Plastics	Processing aid and stabilizer component
Wire & Cable	Heat stability and insulation compounds
Rigid PVC	Profiles, pipes, and fittings
Masterbatch	Stabilizer and lubricant masterbatches
Rubber & Plastics	Acid scavenger and flow modifier

4) Main Uses of Micronised Grade (Table Form)

Use Category	Functional Role of Micronised Aluminum Stearate
Thermal Stabilization	Neutralises acidic degradation products

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Lubrication	Improves melt flow and processing stability
Acid Scavenging	Enhances long-term heat resistance
Dispersion Control	Ensures uniform distribution in polymer matrix
Surface Interaction	Improves polymer–additive compatibility

5) Specific Mentions – Micronised Grade Highlights

- Fine particle size enables rapid and uniform dispersion in PVC and engineering plastics
- Enhances thermal stability efficiency at lower dosage levels
- Reduces plate-out and surface defects during processing
- Compatible with Ca/Zn, Ba/Zn, and mixed-metal stabilizer systems
- Preferred for high-speed extrusion and injection moulding applications

6) Disclaimer

The information provided in this article is based on typical material characteristics and general industry practices. It is intended for technical reference only and does not constitute a guarantee of performance or suitability for any specific application. Users should conduct their own trials and evaluations under actual processing conditions prior to commercial use.

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