

Polymer Add (Thailand) Co.,Ltd.

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ALUMINIUM BENZOATE – MICRONISED

Solid & High-Melting Plasticizer / Permanent Internal Modifier

Product Overview

Aluminium Benzoate is a high-melting, metal-organic benzoate compound designed for use as a solid plasticizer and permanent internal modifier in thermoplastic and composite systems. Supplied in micronised free-flowing powder form, it enables uniform dispersion, controlled melt incorporation, and long-term performance stability.

Unlike conventional liquid plasticizers, Aluminium Benzoate remains structurally integrated within the polymer matrix, providing plasticization effects with low volatility, low migration, and enhanced dimensional retention.

Functional Role in Polymer Formulations

Aluminium Benzoate delivers multiple functional benefits:

- Solid, high-melting plasticizer
- Permanent internal modifier
- Dimensional-stability enhancer
- Low-migration flexibility modifier
- Thermal-resistant structural additive

Its aluminium-benzoate coordination structure allows formulators to adjust mechanical behaviour without compromising thermal or long-term stability.

Primary Application Areas

Application Area	Functional Benefit
Engineering Thermoplastics	Permanent plasticization with thermal stability
High-Temperature Compounds	Retained flexibility during processing
Polymer–Paper & Polymer–Fiber Composites	Improved interfacial stability
Filled & Mineral-Loaded Systems	Stress distribution and reduced brittleness
Specialty Polymer Blends	Controlled flexibility with low additive migration

Advantages of Micronised Aluminium Benzoate

- Uniform dispersion in dry blends and masterbatches
- Improved processing consistency

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- Reduced risk of agglomeration
- Precise dosing and feeding control
- Long-term performance retention

Performance Characteristics

- High melting / decomposition range suitable for demanding processing
- Negligible volatility and migration
- Excellent permanence within polymer matrices
- Minimal impact on long-term mechanical integrity

Application Scope / Usage Note

Aluminium Benzoate is intended for use as a **solid plasticizer and permanent internal modifier** in thermoplastic and composite systems. Optimal dosage and processing conditions should be determined through formulation trials.

Packaging & Supply

- Supplied as micronised free-flowing powder
- Standard packaging: 10 kg bags
- Custom packaging available on request