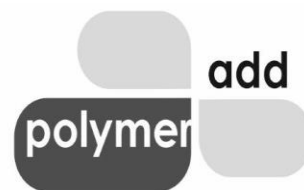


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CALCIUM BENZOATE (MICRONISED)

SOLID & HIGH-MELTING PLASTICIZER / FUNCTIONAL POLYMER MODIFIER

Micronised Calcium Benzoate is a solid, high-melting benzoate-based additive used as a permanent plasticizer and internal functional modifier in polymer systems where low migration, thermal stability, and long-term performance retention are required.

In micronised form, it enables uniform dispersion, predictable processing behaviour, and controlled interaction with polymer matrices across a wide range of formulations.

Primary Uses & Commercial Applications

Flexible & Semi-Rigid PVC Compounds

Calcium Benzoate is applied as a solid plasticizer or co-plasticizer in PVC systems where improved heat stability, dimensional retention, and long-term mechanical consistency are desired. Its high melting point supports performance in elevated-temperature processing and service conditions.

PVC & Engineering Polymer Blends

Used as an internal modifier, it helps fine-tune the balance between rigidity and flexibility in engineered formulations, particularly where traditional liquid plasticizers are unsuitable or need partial replacement.

Styrenic & ABS Compounds

In filled or flame-retardant styrenic and ABS systems, Calcium Benzoate functions as a stress-relief and compatibility modifier, supporting improved internal cohesion and formulation stability.

Polymer–Paper & Polymer–Fiber Composites

In composite structures, it acts as a functional additive improving interfacial stability, contributing to consistent bonding and structural performance between polymer and substrate phases.

High-Temperature Polymer Compounds

Its low volatility and low migration behaviour make it suitable for polymer systems requiring permanent modification under continuous thermal exposure, without compromising downstream properties.

Functional Role in Polymer Formulations

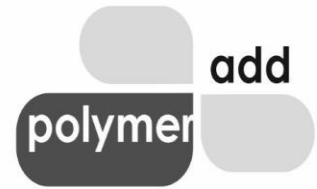
- Solid, high-melting benzoate plasticizer
- Partial replacement for liquid plasticizers
- Permanent internal modifier with low volatility and migration

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- Supports dry-blend stability and masterbatch processing
- Suitable for formulations targeting long-term mechanical and thermal performance

Why Micronised Calcium Benzoate

The micronised particle form allows precise dosage control, faster incorporation, and consistent dispersion in both dry-blend and melt-processed systems. This makes Calcium Benzoate particularly effective in performance-driven formulations where stability over time is as critical as initial processing behaviour.

Application Scope / Usage Note

Final performance depends on formulation design, processing conditions, and compatibility with other additives. Validation trials are recommended before commercial implementation.