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ZINC BENZOATE (CAS 553-72-0)

Zinc Benzoate (CAS 553-72-0) is a **specialty zinc salt** primarily used in plastics and polymer systems for its **nucleating, anti-corrosive, antimicrobial, and stabilizing properties**. In micronized form, it provides enhanced dispersion, making it effective even at low dosages in high-performance polymer and coating systems.

Known Commercial Applications of Micronized Zinc Benzoate

Industry	Application
Polyolefins (PP, PE)	Nucleating agent to improve crystallinity and stiffness, especially in PP homopolymers
PVC & Engineering Plastics	Heat stabilizer and processing aid for lead/tin-free systems
VCI Films & Coatings	Corrosion inhibitor for ferrous and non-ferrous metals (used in VCI papers, films, and blends)
Adhesives & Sealants	Heat stabilizer and mild antimicrobial component in reactive adhesive systems
Coatings & Paints	Corrosion-resistant pigment, used in epoxy or alkyd systems in place of zinc phosphate
Rubber & Elastomers	Secondary accelerator and mild antimicrobial aid

Micronized Zinc Benzoate is a specialty product typically used at **0.2–2.0% dosage** depending on the application.

Summary

Key Advantage	Micronized Zinc Benzoate
Versatile nucleating agent	Enhances crystallization and stiffness in PP and PE
Low-dosage, multi-function additive	Functions as nucleator, stabilizer, and anti-corrosive
VCI-compatible	Offers mild but broad-spectrum corrosion inhibition (steel, copper, zinc)
RoHS/REACH-compliant and non-toxic	Safer alternative to many traditional heavy metal-based additives