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ZINC STEARATE (CAS 557-05-1)

Commercial Uses of Zinc Stearate

Industry	Commercial Applications
Plastics & Polymers	Internal/external lubricant for PVC, PE, PP Processing aid in engineering plastics
Paints & Coatings	- Flatting/anti-settling agent in coatings- Dispersing agent for pigments
Construction Materials	- Hydrophobic additive in cement and dry mortar formulations
Adhesives & Sealants	- Processing aid and stabilizer in hot-melt adhesives and pressure-sensitive adhesives

Functional Roles

- **Lubricant** (internal & external)
- **Release agent** (especially for molds)
- **Dispersing agent** (pigments, fillers)
- **Water repellent** (construction, paper)
- **Anti-caking / flow aid** (powders, cosmetics)

Applications Where Zinc Stearate Is Generally *Not Replaceable* by Calcium Stearate

Application	Reason Why Zinc Stearate Is Preferred
Mold Release in Rubber & Plastics	Zinc stearate provides superior mold release and does not cause staining or fouling during demolding.
Masterbatches & Pigment Dispersions	Zinc stearate has better dispersibility and pigment-wetting capability in non-polar polymers.
PVC Compounding (especially rigid)	Acts as an effective heat stabilizer and processing lubricant. Works synergistically with other additives.
Paints & Powder Coatings	Zinc stearate improves matting and anti-settling. It offers better compatibility and transparency.
Thermoplastics (e.g., ABS, PS, PE)	Zinc stearate enables better flow, reduced die build-up, and fewer defects than calcium stearate.
Hot Melt Adhesives & PSAs	Preferred due to its high thermal resistance and better compatibility with synthetic resin systems.