

SPECIFICATION

Product Name: Zinc Stearate Technical Grade
Chemical Formula: $\text{Zn}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$
CAS Number: 557-05-1
Molecular Weight: 632.33 g/mol
Appearance: White powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Zinc Content (as Zn Equivalent)	%	10.89 %	9.0 -11.0 %
Moisture Content	%	0.74%	Max. 2.0 %
Free Fatty Acid	%	0.85 %	Max. 1.0 %
Melting Point	°C	120°C	120.0 ± 5, °C
Bulk Density (Untapped)	-	0.27	0.3 ± 0.05
Sieve Content (200 Mesh)	-	Passes	Passes
Heavy Metals	PPM	Complies	Max. 10 PPM

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Soluble in chloroform. Insoluble in acetone. Soluble in ether. Insoluble in mineral oils.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, direct sunlight, and contamination. Keep the container tightly closed in the original, properly labeled packaging to prevent moisture absorption and dust

contamination. Store away from strong oxidizing agents, strong acids, and incompatible materials. Proper storage helps maintain the product's free-flowing properties, lubricating performance, hydrophobic characteristics, purity, and stability for industrial use.

Applications

- Use: Widely used as a lubricant, mold release agent, anti-caking agent, water-repellent additive, and processing aid in plastic, rubber, paint, coating, construction, and chemical industries. It improves powder flow, reduces friction, prevents sticking to processing equipment, enhances surface finish, and provides moisture resistance. It is commonly incorporated into PVC compounds, thermoplastics, rubber products, masterbatches, paints, varnishes, sealants, adhesives, and powder coatings to improve processing efficiency and product performance.
- Dosage: Zinc Stearate Technical Grade does not have a therapeutic or food dosage, as it is intended only for industrial applications. The quantity used depends on the formulation, processing method, and the desired lubricating or release properties.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.