

SPECIFICATION

Product Name: Zinc Phosphate Technical Grade
Chemical Formula: $Zn_3(PO_4)_2$
CAS Number: 7779-90-0
Molecular Weight: 386.11 g/mol
Appearance: A white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Zinc	%	49.30%	49 – 51%
Phosphorous as PO ₄ 3-%	%	48.60%	48 – 50%
Loss on ignition 600°C	%	Complies	8 – 15%
pH	-	6.9	6.5 – 7.5
Destiny	g/cm ³	Complies	3.2 – 3.4
Mesh size (270 ASTM)	%	Complies	Max. 0.50%
Lead as pb	PPM	<10	Max. 10 PPM
Cadmium	PPM	<10	Max. 10 PPM
Oil absorption value	g/100g	Complies	18 – 20
Average particle size D50	Microns	<10	NMT 10 microns

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Soluble in acid. Insoluble in acetone. Soluble in alkalis.

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, and contamination. Keep the container tightly closed in the original, properly labeled packaging. Store away from strong acids, strong alkalis, and incompatible materials, and protect from direct sunlight and excessive heat to maintain product quality, stability, and free-flowing properties.

Applications

- Use: Widely used as an anti-corrosive pigment, metal surface treatment chemical, and coating additive in industrial applications. It provides excellent corrosion resistance and is commonly incorporated into protective primers, industrial paints, powder coatings, epoxy coatings, alkyd coatings, metal pretreatment formulations, and anti-rust systems. It is also used in the manufacture of marine coatings, automotive coatings, structural steel coatings, and general industrial finishes to improve adhesion, durability, and long-term corrosion protection.
- Dosage: Zinc Phosphate Technical Grade does not have a therapeutic or food dosage, as it is intended only for industrial applications.

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.