

SPECIFICATION

Product Name: Zinc Oxide USP Grade
Chemical Formula: ZnO
CAS Number: 1314-13-2
Molecular Weight: 81.38 g/mol
Appearance: White fine powder
Odor: Odorless.

Chemical Composition

Parameter	Unit	Specification (Min/Max)
Assay Zinc Oxide	%	Min. 99.70%
Alkalinity	-	Complies
Identification A (By Chemical)	-	Complies
Identification B (By Chemical)	-	Complies
Carbonate and Substances Insoluble in Acid	-	Complies
Arsenic	%	NMT 0.0004%
Lead	%	NMT 0.001%
Iron	%	NMT 0.01%
Sulfate	%	NMT 0.01%
Cadmium	%	NMT 0.0005%
Chloride	%	NMT 0.01%
Loss on Ignition	%	NMT 1.0%
Particle Size	-	99% through 325 mesh
Bulk Density	g/ml	0.4 – 0.8 g/ml
pH (5% Suspension)	-	6.5 – 8.5

Physical Properties

- Solubility: Practically insoluble in water. Insoluble in ethanol. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, contamination, and direct sunlight. Keep the container tightly sealed when not in use to maintain product quality and prevent absorption of impurities.

Applications

- Use: Widely used as a protective agent, skin protectant, zinc supplement, opacifying agent, and pharmaceutical excipient in pharmaceutical, cosmetic, personal care, and nutraceutical products.
- Dosage: Depends on the intended application and the desired level of elemental zinc.

Packaging

- Standard Packing: 25 kg HDPE bags 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.