

## SPECIFICATION

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

### Chemical Composition

Parameter	Unit	Specification (Min/Max)
Zinc Oxide	%	Min. 99.70%
Zinc	%	Min. 80.09%
Alkalinity	-	Complies
Identification A (By Chemical)	-	Complies
Identification B (By Chemical)	-	Complies
Carbonate and Substances Insoluble in Acid	-	Complies
Arsenic	-	Not Detected
Lead	PPM	Max. 20 PPM
Iron	PPM	Max. 20 PPM
Copper	PPM	Max. 10 ppm
Cadmium	PPM	Max. 1 ppm
Magnesium	-	Not Detected
Sulphur	-	Not Detected
Loss on Ignition at 800 C	%	Max. 1.00%
Heat Loss at 110 C(LOD)	%	Max. 00.20%
<b>Microbiological Test (In House)</b>		
Total Aerobic microbial count	Cfu/gm	Complies 1,000 Cfu/gm
Total yeast and mold count	Cfu/gm	Complies 100 Cfu/gm

Escherichia Coli	Absent/g	Complies	Absent/g
Salmonella	Absent/g	Complies	Absent/g
Pathogens	Absent	Complies	Absent
O V I (ORGANIC VOLATILE IMPURITES)	Meets the requirement	Complies	Meets
BSE/ TSE	Absent	Complies	Absent

### **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.