



# PUNIA

## GROUP OF INDUSTRIES

Manufacturers & Exporters of Zinc Oxide

**HARYANA | GUJARAT | ANDHRA PRADESH**

AN ISO 9001 : 2015, ISO 14001 : 2015 AND OHSAS 45001 : 2018 Certified Company

## About Punia Group of Industries

The first seed of inception of the group was sown in the year 1985 with its first production unit at Haryana. Our promoter, a qualified engineer having a core vision towards quality products and commitment towards taking the group further with the most ethical business practices.

As a result the group today has a reputation of being one of the most credible Zinc Oxide manufacturers and exporters in India by constantly providing the best quality products and services to its esteemed customers. The plant operations are being optimized and enhancement in capacity has become a regular feature to cater to the growing demand of our product. Today, it has metamorphosed into one of the largest producers of Zinc Oxide in the country, comprising **Punia Udyog** in Rewari, Haryana and **Punia Zinox Private Limited** in Bhuj, Gujarat and having a total production capacity of 22000 MT per annum.

Also, Punia Group of industries is all geared up for setting up their new Green field project in Andhra Pradesh by 2024 in the name of **Punia Metox Private Limited**. This venture promises to be another sustainable state-of-the-art plant of Zinc Oxide production with a capacity of 12,000 MT per annum in its first phase.

## Company Vision

- To be a global leader in Zinc Oxide, renowned for innovation, sustainability, and excellence. We aspire to redefine industry standards and contribute significantly to a more sustainable and interconnected world.
- We envision a future where innovation is at the core of everything we do. Our commitment to research and development aims to continuously push boundaries, delivering cutting-edge solutions that meet the evolving needs of industries worldwide.
- Our vision includes expanding our reach to new markets, forming strategic partnership, and being a catalyst for positive transformation in the Zinc Oxide industry.

## Company Mission

- To lead in every facet of our business, not just limiting to product quality, but in operational efficiency, customer satisfaction, and social responsibility.
- As we extend our global reach, our mission remains grounded in local impact. We strive to be more than a global player; we aim to be a trusted partner, understanding the unique needs of the commodities we serve.

## Values

ETHICS • PERFECTION • COMMITMENT • QUALITY



**Product - Zinc Oxide**

# Process Flow Chart of Zinc Oxide Manufacturing



## Quality Assurance & Environment

Quality assurance is essential for meeting customer expectations, adhering to industry standards, and fostering sustainable growth.

- As an ISO Certified Manufacturer, the commitment to excellence involves rigorous testing, analysis of raw materials, and strict processes to ensure reliability, adherence to standards, and customer satisfaction.
- Cutting-edge In-House Monitoring enables the achievement of stringent standards of in the Zinc Oxide.
- Regular calibration to maintain the accuracy and reliability of machinery
- Actively assessing and minimizing the environmental impact, embracing sustainable practices, and complying with relevant regulations.

## Certifications

Punia Group of Industries was one of the first in the Zinc Oxide industry to have integrated management systems in the early 90's, showcasing commitment towards systematic growth.

All existing plants hold certifications for :

- Quality Management System (ISO 9001:2015),
- Environmental Management System (ISO 14001:2015)
- Occupational Health & Safety Management System (OHSAS 45001:2018).



**Punia Zinox Private Limited is REACH certified and has been honored with a Bronze medal by EcoVadis for its sustainable approach and has also been given the AEO status by Indian Customs.**

## In House Laboratory

State-of-the-art in-house laboratory equipped with cutting-edge instrumentation and expert chemists, ensuring rigorous quality control and continuous innovation in our chemical manufacturing processes.



Not even a kg gets out of the premise without getting tested, guaranteeing the highest standards of quality and safety.

## Technical Specification of Zinc Oxide

S. NO.	CHARACTERISTICS	SPECIFICATIONS
1	Appearance	A soft, White amorphous powder
2	Spe. Gravity	5.50 to 5.70
3	Purity, ZnO	Not Less than 99.00 %
4	Surface Area	4.0 to 6.0 m <sup>2</sup> /gm
5	Loss on Heating 2 h at 105°C	Not more than 0.20 %
6	Loss on Ignition	Not more than 0.50 %
7	Wet Sieve Residue on 325 mesh	Not more than 0.10 %
8	pH (10gm to 100 ml)	5.0 to 8.0
9	Lead as PbO	Not More than 0.10 %
10	Cadmium as CdO	Not More than 0.025 %

S. NO.	CHARACTERISTICS	SPECIFICATIONS
1	Appearance	A soft, White amorphous powder
2	Spe. Gravity	5.50 to 5.70
3	Purity, ZnO	Not Less than 99.50 %
4	Surface Area	4.0 to 6.0 m <sup>2</sup> /gm
5	Loss on Heating 2 h at 105°C	Not more than 0.20 %
6	Loss on Ignition	Not more than 0.35 %
7	Wet Sieve Residue on 325 mesh	Not more than 0.05 %
8	pH (10gm to 100 ml)	5.0 to 8.0
9	Lead as PbO	Not More than 0.0750 %
10	Cadmium as CdO	Not More than 0.0200 %

S. NO.	CHARACTERISTICS	SPECIFICATIONS
1	Appearance	A soft, White amorphous powder
2	Spe. Gravity	5.50 to 5.70
3	Purity, ZnO	Not Less than 99.90 %
4	Surface Area	4.0 to 6.0 m <sup>2</sup> /gm
5	Loss on Heating 2 h at 105°C	Not more than 0.15 %
6	Loss on Ignition	Not more than 0.30 %
7	Wet Sieve Residue on 325 mesh	Not more than 0.020 %
8	pH (10gm to 100 ml)	5.0 to 8.0
9	Lead as PbO	Not More than 0.02 %
10	Cadmium as CdO	Not More than 0.001 %
11	Manganese as Mn	Not More than 0.001 %
12	Iron as Fe	Not More than 0.001 %
13	Copper as Cu	Not More than 0.001 %

We can produce Zinc Oxide as per customer's specific requirements.

## Major Application of Zinc Oxide



### Tyres

In the tire industry, Zinc oxide is primarily used as a crucial ingredient in the vulcanization process, which strengthens and stabilizes rubber compounds, enhancing tire durability. It also provides UV protection, acts as an antioxidant to prevent rubber degradation, and aids in neutralizing acidic by-products during tire production. These properties make zinc oxide indispensable for ensuring the longevity and performance of tires in various conditions.



### Paints

Zinc oxide is utilized in paint for its versatile properties. It serves as a white pigment, providing opacity and brightness. Additionally, it offers UV protection, inhibits microbial growth, enhances corrosion resistance, and contributes to the chemical stability of the paint, ensuring durability and longevity.



### Ceramics

Zinc oxide serves as a flux, helping to lower the melting point of glazes and facilitating the fusion of different materials. Additionally, zinc oxide can act as an opacifier, imparting opacity to glazes and enhancing their brightness and whiteness. It also contributes to the development of crystalline structures in ceramic glazes, adding visual interest and texture to finished pieces.



### Sports Goods & Automotive Components

Zinc oxide is used in vulcanization of rubber for manufacturing sports equipment, shoe soles, and other rubber equipment. It also prevents corrosion of electrical components, making them last longer. Zinc oxide also helps protect metal surfaces from rusting. It also has high chemical stability.



### Cosmetics

Zinc oxide is widely used in cosmetics for its versatile properties. It serves as a physical sunscreen agent, providing broad-spectrum UV protection. Additionally, it acts as a skin protectant, soothing irritations and reducing inflammation. Zinc oxide is also utilized in cosmetics for its mattifying effect, helping to control oiliness and shine on the skin. Overall, it's valued for its effectiveness, safety, and multi functionality in skincare and makeup products.



### Fertilizers

Zinc oxide is used in fertilizers primarily to address zinc deficiencies in soil. Zinc is an essential micronutrient for plants, playing a crucial role in various physiological processes such as enzyme function, protein synthesis, and growth regulation. Zinc oxide is incorporated into fertilizers to provide a slow-release source of zinc to the soil, ensuring optimal plant growth and development. It helps improve crop yield, quality, and resistance to stress factors, ultimately enhancing agricultural productivity.

## Supplements & Vitamins



Zinc oxide is utilised for its essential role in supporting various bodily functions. It is commonly included in multivitamin formulations and standalone supplements to help maintain a healthy immune system, promote wound healing, support DNA synthesis, and aid in the metabolism of carbohydrates, fats, and proteins. Additionally, zinc oxide is crucial for maintaining healthy skin, hair, and nails.

## PACKAGING

We are providing versatile packing solution to meet our customer's specific requirements.



**10 Kg EVA Bags**



**25 Kg PP Bags**



**1000 Kg PP Jumbo Bags**

We also provide Palletised packaging for our overseas and domestic customers.

# PUNIA

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### CORPORATE OFFICE

Unit No. 03-17, 3rd Floor, MGF Metropolis Mall, Near MG Road Metro Station, Gurgaon, Haryana (India) - 122 002.

Phone No. : +91 - 124 - 4219669

Mobile : +91 - 70655 - 96966

Email : [info@punia.co.in](mailto:info@punia.co.in) | Website : [www.punia.co.in](http://www.punia.co.in)

HARYANA | GUJARAT | ANDHRA PRADESH