

Global ZnO Nanoparticles Market Growth 2026-2032

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Abstracts

The global ZnO Nanoparticles market size is predicted to grow from US\$ 330 million in 2025 to US\$ 459 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Zinc oxide nanoparticles are nanoparticles of zinc oxide (ZnO) that have diameters less than 100 nanometers. They have a large surface area relative to their size and high catalytic activity. The exact physical and chemical properties of zinc oxide nanoparticles depend on the different ways they are synthesized. Some possible ways to produce ZnO nano-particles are laser ablation, hydrothermal methods, electrochemical depositions, sol-gel method, chemical vapor deposition, thermal decomposition, combustion methods, ultrasound, microwave-assisted combustion method, two-step mechanochemical-thermal synthesis, anodization, co-precipitation, electrophoretic deposition, and precipitation processes using solution concentration, pH, and washing medium. ZnO is a wide-bandgap semiconductor with an energy gap of 3.37 eV at room temperature.

The upstream supply chain of Zinc oxide nanoparticles begins with high-purity zinc metal, zinc-bearing intermediates, process chemicals, deionized water, energy, surface-treatment agents, dispersants, solvents, and industrial packaging. Reliable access to consistent zinc feedstock is important because metal purity, trace contaminants, precursor chemistry, calcination control, and washing efficiency directly affect particle size, color, photocatalytic behavior, and batch consistency. Producers typically combine precipitation, controlled oxidation, hydrothermal processing, spray pyrolysis, pulsation-reactor processing, or other proprietary routes with milling, coating, and dispersion operations. Downstream customers include sunscreen ingredient formulators, rubber compounders, plastics producers, coatings manufacturers, ceramic processors, electronics material suppliers, agricultural input companies, healthcare-material producers, and catalyst manufacturers.

In the current market, global production of Zinc oxide nanoparticles is around 21,500 metric tons, with an average selling price of about 15.7 USD per kg. The market combines relatively high-volume, lower-priced uncoated industrial powder with smaller-volume, higher-priced surface-treated powder, liquid dispersion, cosmetic grade, and electronic grade products. China is the largest demand region by physical volume because it has substantial rubber, polymer, ceramic, catalyst, textile, and industrial material consumption, while Europe and North America account for a higher proportion of market value because their product mix contains more regulated personal-care ingredients, coated grades, and formulated dispersions. Japan, Korea, India, Thailand, Australia, and Taiwan also form an important production and consumption cluster. Top 5 suppliers control approximately 31 percent of global revenue CR5, indicating a fragmented overall structure even though individual high-value niches are more concentrated. The estimated typical industry gross margin is 31.5 percent. Commodity-like uncoated powders generally earn lower margins, while cosmetic dispersions, tightly controlled particle-size grades, coated powders, and qualified electronic materials can earn substantially more. The principal barriers are repeatable primary-particle control, agglomeration management, coating uniformity, impurity control, dispersion stability, regulatory documentation, occupational-safety management, customer validation, and reliable scale-up. Large industrial buyers usually purchase directly under annual supply agreements or periodically negotiated framework contracts. Cosmetic and electronic customers generally require extended qualification, specification locking, samples, audit rights, change-control procedures, and approved-supplier status. Public research organizations and smaller specialty users may purchase through distributors, tenders, or project-based orders.

From 2026 to 2032, demand is expected to expand through mineral sun protection, transparent UV-protective coatings, antimicrobial polymers, functional textiles, lower-zinc rubber formulations, electronic transport layers, sensors, photocatalytic systems, and more efficient micronutrient delivery. Regulation will remain a major market-shaping factor. Personal-care suppliers will face increasingly specific requirements covering particle-size distributions, coatings, purity, exposure routes, labeling, safety dossiers, and restrictions on products that may create inhalable aerosols. Technology development will concentrate on surface-passivated particles, low-photoreactivity grades, higher-solids dispersions, narrow particle-size distributions, improved oil or water compatibility, and products designed to retain transparency without sacrificing ultraviolet attenuation. Cost pressure will remain substantial because zinc prices, energy use, wastewater treatment, filtration, drying, coating, and analytical control account for a large portion of production economics. Replacement cycles are

application-specific: personal-care and electronics grades are reformulated when regulations, customer platforms, or device architectures change, while rubber, ceramics, and industrial coatings usually replace suppliers only after qualification, cost reduction, or performance failure. Carbon constraints will encourage lower-temperature processes, closed-loop water systems, recycled zinc inputs, higher yields, and regionalized supply chains.

LP Information, Inc. (LPI) ' newest research report, the "ZnO Nanoparticles Industry Forecast" looks at past sales and reviews total world ZnO Nanoparticles sales in 2025, providing a comprehensive analysis by region and market sector of projected ZnO Nanoparticles sales for 2026 through 2032. With ZnO Nanoparticles sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world ZnO Nanoparticles industry.

This Insight Report provides a comprehensive analysis of the global ZnO Nanoparticles landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on ZnO Nanoparticles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global ZnO Nanoparticles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for ZnO Nanoparticles and breaks down the forecast by Particle Size, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global ZnO Nanoparticles.

This report presents a comprehensive overview, market shares, and growth opportunities of ZnO Nanoparticles market by product type, application, key manufacturers and key regions and countries.

Segmentation by Particle Size:

Particle Size 60nm

Segmentation by Surface Treatment:

Uncoated

Surface-treated

Segmentation by Form:

Dry Powder

Liquid Dispersion

Segmentation by Application:

Rubber

Cosmetic

Coating

Textile

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

HAKUSUI TECH

Sakai Chemical

TAYCA Corporation

Tata Chemicals

Solesence

Pan-Continental Chemical

Henan Yuguang Gold & Lead Co., Ltd.

Shaanxi Sino Academy Nano-Material Co., Ltd.

Shandong Xingya New Materials Co., Ltd.

Jiyuan Lutai Nano Materials Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global ZnO Nanoparticles market?

What factors are driving ZnO Nanoparticles market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do ZnO Nanoparticles market opportunities vary by end market size?

How does ZnO Nanoparticles break out by Particle Size, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global ZnO Nanoparticles Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for ZnO Nanoparticles by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for ZnO Nanoparticles by Country/Region, 2021, 2025 & 2032

2.2 ZnO Nanoparticles Segment by Particle Size

- 2.2.1 Particle Size 60nm
- 2.2.4 ZnO Nanoparticles Sales by Particle Size
 - 2.2.4.1 Global ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
 - 2.2.4.2 Global ZnO Nanoparticles Revenue and Market Share by Particle Size (2021-2026)
 - 2.2.4.3 Global ZnO Nanoparticles Sale Price by Particle Size (2021-2026)

2.3 ZnO Nanoparticles Segment by Surface Treatment

- 2.3.1 Uncoated
- 2.3.2 Surface-treated
- 2.3.3 ZnO Nanoparticles Sales by Surface Treatment
 - 2.3.3.1 Global ZnO Nanoparticles Sales Market Share by Surface Treatment (2021-2026)
 - 2.3.3.2 Global ZnO Nanoparticles Revenue and Market Share by Surface Treatment (2021-2026)
 - 2.3.3.3 Global ZnO Nanoparticles Sale Price by Surface Treatment (2021-2026)

2.4 ZnO Nanoparticles Segment by Form

- 2.4.1 Dry Powder

2.4.2 Liquid Dispersion

2.4.3 ZnO Nanoparticles Sales by Form

2.4.3.1 Global ZnO Nanoparticles Sales Market Share by Form (2021-2026)

2.4.3.2 Global ZnO Nanoparticles Revenue and Market Share by Form (2021-2026)

2.4.3.3 Global ZnO Nanoparticles Sale Price by Form (2021-2026)

2.5 ZnO Nanoparticles Segment by Application

2.5.1 Rubber

2.5.2 Cosmetic

2.5.3 Coating

2.5.4 Textile

2.5.5 Others

2.5.6 ZnO Nanoparticles Sales by Application

2.5.6.1 Global ZnO Nanoparticles Sale Market Share by Application (2021-2026)

2.5.6.2 Global ZnO Nanoparticles Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global ZnO Nanoparticles Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global ZnO Nanoparticles Breakdown Data by Company

3.1.1 Global ZnO Nanoparticles Annual Sales by Company (2021-2026)

3.1.2 Global ZnO Nanoparticles Sales Market Share by Company (2021-2026)

3.2 Global ZnO Nanoparticles Annual Revenue by Company (2021-2026)

3.2.1 Global ZnO Nanoparticles Revenue by Company (2021-2026)

3.2.2 Global ZnO Nanoparticles Revenue Market Share by Company (2021-2026)

3.3 Global ZnO Nanoparticles Sale Price by Company

3.4 Key Manufacturers ZnO Nanoparticles Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers ZnO Nanoparticles Product Location Distribution

3.4.2 Players ZnO Nanoparticles Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ZNO NANOPARTICLES BY GEOGRAPHIC REGION

- 4.1 World Historic ZnO Nanoparticles Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global ZnO Nanoparticles Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global ZnO Nanoparticles Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic ZnO Nanoparticles Market Size by Country/Region (2021-2026)
 - 4.2.1 Global ZnO Nanoparticles Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global ZnO Nanoparticles Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas ZnO Nanoparticles Sales Growth
- 4.4 APAC ZnO Nanoparticles Sales Growth
- 4.5 Europe ZnO Nanoparticles Sales Growth
- 4.6 Middle East & Africa ZnO Nanoparticles Sales Growth

5 AMERICAS

- 5.1 Americas ZnO Nanoparticles Sales by Country
 - 5.1.1 Americas ZnO Nanoparticles Sales by Country (2021-2026)
 - 5.1.2 Americas ZnO Nanoparticles Revenue by Country (2021-2026)
- 5.2 Americas ZnO Nanoparticles Sales by Particle Size (2021-2026)
- 5.3 Americas ZnO Nanoparticles Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC ZnO Nanoparticles Sales by Region
 - 6.1.1 APAC ZnO Nanoparticles Sales by Region (2021-2026)
 - 6.1.2 APAC ZnO Nanoparticles Revenue by Region (2021-2026)
- 6.2 APAC ZnO Nanoparticles Sales by Particle Size (2021-2026)
- 6.3 APAC ZnO Nanoparticles Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe ZnO Nanoparticles by Country

7.1.1 Europe ZnO Nanoparticles Sales by Country (2021-2026)

7.1.2 Europe ZnO Nanoparticles Revenue by Country (2021-2026)

7.2 Europe ZnO Nanoparticles Sales by Particle Size (2021-2026)

7.3 Europe ZnO Nanoparticles Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa ZnO Nanoparticles by Country

8.1.1 Middle East & Africa ZnO Nanoparticles Sales by Country (2021-2026)

8.1.2 Middle East & Africa ZnO Nanoparticles Revenue by Country (2021-2026)

8.2 Middle East & Africa ZnO Nanoparticles Sales by Particle Size (2021-2026)

8.3 Middle East & Africa ZnO Nanoparticles Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of ZnO Nanoparticles

10.3 Manufacturing Process Analysis of ZnO Nanoparticles

10.4 Industry Chain Structure of ZnO Nanoparticles

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 ZnO Nanoparticles Distributors

11.3 ZnO Nanoparticles Customer

12 WORLD FORECAST REVIEW FOR ZNO NANOPARTICLES BY GEOGRAPHIC REGION

12.1 Global ZnO Nanoparticles Market Size Forecast by Region

12.1.1 Global ZnO Nanoparticles Forecast by Region (2027-2032)

12.1.2 Global ZnO Nanoparticles Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global ZnO Nanoparticles Forecast by Particle Size (2027-2032)

12.7 Global ZnO Nanoparticles Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 HAKUSUI TECH

13.1.1 HAKUSUI TECH Company Information

13.1.2 HAKUSUI TECH ZnO Nanoparticles Product Portfolios and Specifications

13.1.3 HAKUSUI TECH ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 HAKUSUI TECH Main Business Overview

13.1.5 HAKUSUI TECH Latest Developments

13.2 Sakai Chemical

13.2.1 Sakai Chemical Company Information

13.2.2 Sakai Chemical ZnO Nanoparticles Product Portfolios and Specifications

13.2.3 Sakai Chemical ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Sakai Chemical Main Business Overview

13.2.5 Sakai Chemical Latest Developments

13.3 TAYCA Corporation

13.3.1 TAYCA Corporation Company Information

13.3.2 TAYCA Corporation ZnO Nanoparticles Product Portfolios and Specifications

13.3.3 TAYCA Corporation ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 TAYCA Corporation Main Business Overview

13.3.5 TAYCA Corporation Latest Developments

13.4 Tata Chemicals

13.4.1 Tata Chemicals Company Information

13.4.2 Tata Chemicals ZnO Nanoparticles Product Portfolios and Specifications

13.4.3 Tata Chemicals ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Tata Chemicals Main Business Overview

13.4.5 Tata Chemicals Latest Developments

13.5 Solesence

13.5.1 Solesence Company Information

13.5.2 Solesence ZnO Nanoparticles Product Portfolios and Specifications

13.5.3 Solesence ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Solesence Main Business Overview

13.5.5 Solesence Latest Developments

13.6 Pan-Continental Chemical

13.6.1 Pan-Continental Chemical Company Information

13.6.2 Pan-Continental Chemical ZnO Nanoparticles Product Portfolios and Specifications

13.6.3 Pan-Continental Chemical ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Pan-Continental Chemical Main Business Overview

13.6.5 Pan-Continental Chemical Latest Developments

13.7 Henan Yuguang Gold & Lead Co., Ltd.

13.7.1 Henan Yuguang Gold & Lead Co., Ltd. Company Information

13.7.2 Henan Yuguang Gold & Lead Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

13.7.3 Henan Yuguang Gold & Lead Co., Ltd. ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Henan Yuguang Gold & Lead Co., Ltd. Main Business Overview

13.7.5 Henan Yuguang Gold & Lead Co., Ltd. Latest Developments

13.8 Shaanxi Sino Academy Nano-Material Co., Ltd.

13.8.1 Shaanxi Sino Academy Nano-Material Co., Ltd. Company Information

13.8.2 Shaanxi Sino Academy Nano-Material Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

13.8.3 Shaanxi Sino Academy Nano-Material Co., Ltd. ZnO Nanoparticles Sales,

Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shaanxi Sino Academy Nano-Material Co., Ltd. Main Business Overview

13.8.5 Shaanxi Sino Academy Nano-Material Co., Ltd. Latest Developments

13.9 Shandong Xingya New Materials Co., Ltd.

13.9.1 Shandong Xingya New Materials Co., Ltd. Company Information

13.9.2 Shandong Xingya New Materials Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

13.9.3 Shandong Xingya New Materials Co., Ltd. ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Shandong Xingya New Materials Co., Ltd. Main Business Overview

13.9.5 Shandong Xingya New Materials Co., Ltd. Latest Developments

13.10 Jiyuan Lutai Nano Materials Co., Ltd.

13.10.1 Jiyuan Lutai Nano Materials Co., Ltd. Company Information

13.10.2 Jiyuan Lutai Nano Materials Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

13.10.3 Jiyuan Lutai Nano Materials Co., Ltd. ZnO Nanoparticles Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Jiyuan Lutai Nano Materials Co., Ltd. Main Business Overview

13.10.5 Jiyuan Lutai Nano Materials Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. ZnO Nanoparticles Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. ZnO Nanoparticles Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Particle Size 60nm
- Table 6. Global ZnO Nanoparticles Sales by Particle Size (2021-2026) & (Tons)
- Table 7. Global ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
- Table 8. Global ZnO Nanoparticles Revenue by Particle Size (2021-2026) & (\$ million)
- Table 9. Global ZnO Nanoparticles Revenue Market Share by Particle Size (2021-2026)
- Table 10. Global ZnO Nanoparticles Sale Price by Particle Size (2021-2026) & (US\$/Kg)
- Table 11. Major Players of Uncoated
- Table 12. Major Players of Surface-treated
- Table 13. Global ZnO Nanoparticles Sales by Surface Treatment (2021-2026) & (Tons)
- Table 14. Global ZnO Nanoparticles Sales Market Share by Surface Treatment (2021-2026)
- Table 15. Global ZnO Nanoparticles Revenue by Surface Treatment (2021-2026) & (\$ million)
- Table 16. Global ZnO Nanoparticles Revenue Market Share by Surface Treatment (2021-2026)
- Table 17. Global ZnO Nanoparticles Sale Price by Surface Treatment (2021-2026) & (US\$/Kg)
- Table 18. Major Players of Dry Powder
- Table 19. Major Players of Liquid Dispersion
- Table 20. Global ZnO Nanoparticles Sales by Form (2021-2026) & (Tons)
- Table 21. Global ZnO Nanoparticles Sales Market Share by Form (2021-2026)
- Table 22. Global ZnO Nanoparticles Revenue by Form (2021-2026) & (\$ million)
- Table 23. Global ZnO Nanoparticles Revenue Market Share by Form (2021-2026)
- Table 24. Global ZnO Nanoparticles Sale Price by Form (2021-2026) & (US\$/Kg)
- Table 25. Global ZnO Nanoparticles Sale by Application (2021-2026) & (Tons)
- Table 26. Global ZnO Nanoparticles Sale Market Share by Application (2021-2026)
- Table 27. Global ZnO Nanoparticles Revenue by Application (2021-2026) & (\$ million)
- Table 28. Global ZnO Nanoparticles Revenue Market Share by Application (2021-2026)
- Table 29. Global ZnO Nanoparticles Sale Price by Application (2021-2026) & (US\$/Kg)
- Table 30. Global ZnO Nanoparticles Sales by Company (2021-2026) & (Tons)

Table 31. Global ZnO Nanoparticles Sales Market Share by Company (2021-2026)
Table 32. Global ZnO Nanoparticles Revenue by Company (2021-2026) & (\$ millions)
Table 33. Global ZnO Nanoparticles Revenue Market Share by Company (2021-2026)
Table 34. Global ZnO Nanoparticles Sale Price by Company (2021-2026) & (US\$/Kg)
Table 35. Key Manufacturers ZnO Nanoparticles Producing Area Distribution and Sales Area
Table 36. Players ZnO Nanoparticles Products Offered
Table 37. ZnO Nanoparticles Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global ZnO Nanoparticles Sales by Geographic Region (2021-2026) & (Tons)
Table 41. Global ZnO Nanoparticles Sales Market Share Geographic Region (2021-2026)
Table 42. Global ZnO Nanoparticles Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 43. Global ZnO Nanoparticles Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global ZnO Nanoparticles Sales by Country/Region (2021-2026) & (Tons)
Table 45. Global ZnO Nanoparticles Sales Market Share by Country/Region (2021-2026)
Table 46. Global ZnO Nanoparticles Revenue by Country/Region (2021-2026) & (\$ millions)
Table 47. Global ZnO Nanoparticles Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas ZnO Nanoparticles Sales by Country (2021-2026) & (Tons)
Table 49. Americas ZnO Nanoparticles Sales Market Share by Country (2021-2026)
Table 50. Americas ZnO Nanoparticles Revenue by Country (2021-2026) & (\$ millions)
Table 51. Americas ZnO Nanoparticles Sales by Particle Size (2021-2026) & (Tons)
Table 52. Americas ZnO Nanoparticles Sales by Application (2021-2026) & (Tons)
Table 53. APAC ZnO Nanoparticles Sales by Region (2021-2026) & (Tons)
Table 54. APAC ZnO Nanoparticles Sales Market Share by Region (2021-2026)
Table 55. APAC ZnO Nanoparticles Revenue by Region (2021-2026) & (\$ millions)
Table 56. APAC ZnO Nanoparticles Sales by Particle Size (2021-2026) & (Tons)
Table 57. APAC ZnO Nanoparticles Sales by Application (2021-2026) & (Tons)
Table 58. Europe ZnO Nanoparticles Sales by Country (2021-2026) & (Tons)
Table 59. Europe ZnO Nanoparticles Revenue by Country (2021-2026) & (\$ millions)
Table 60. Europe ZnO Nanoparticles Sales by Particle Size (2021-2026) & (Tons)
Table 61. Europe ZnO Nanoparticles Sales by Application (2021-2026) & (Tons)
Table 62. Middle East & Africa ZnO Nanoparticles Sales by Country (2021-2026) &

(Tons)

Table 63. Middle East & Africa ZnO Nanoparticles Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa ZnO Nanoparticles Sales by Particle Size (2021-2026) & (Tons)

Table 65. Middle East & Africa ZnO Nanoparticles Sales by Application (2021-2026) & (Tons)

Table 66. Key Market Drivers & Growth Opportunities of ZnO Nanoparticles

Table 67. Key Market Challenges & Risks of ZnO Nanoparticles

Table 68. Key Industry Trends of ZnO Nanoparticles

Table 69. ZnO Nanoparticles Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. ZnO Nanoparticles Distributors List

Table 72. ZnO Nanoparticles Customer List

Table 73. Global ZnO Nanoparticles Sales Forecast by Region (2027-2032) & (Tons)

Table 74. Global ZnO Nanoparticles Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas ZnO Nanoparticles Sales Forecast by Country (2027-2032) & (Tons)

Table 76. Americas ZnO Nanoparticles Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC ZnO Nanoparticles Sales Forecast by Region (2027-2032) & (Tons)

Table 78. APAC ZnO Nanoparticles Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe ZnO Nanoparticles Sales Forecast by Country (2027-2032) & (Tons)

Table 80. Europe ZnO Nanoparticles Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa ZnO Nanoparticles Sales Forecast by Country (2027-2032) & (Tons)

Table 82. Middle East & Africa ZnO Nanoparticles Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global ZnO Nanoparticles Sales Forecast by Particle Size (2027-2032) & (Tons)

Table 84. Global ZnO Nanoparticles Revenue Forecast by Particle Size (2027-2032) & (\$ millions)

Table 85. Global ZnO Nanoparticles Sales Forecast by Application (2027-2032) & (Tons)

Table 86. Global ZnO Nanoparticles Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. HAKUSUI TECH Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 88. HAKUSUI TECH ZnO Nanoparticles Product Portfolios and Specifications
Table 89. HAKUSUI TECH ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 90. HAKUSUI TECH Main Business
Table 91. HAKUSUI TECH Latest Developments
Table 92. Sakai Chemical Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 93. Sakai Chemical ZnO Nanoparticles Product Portfolios and Specifications
Table 94. Sakai Chemical ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 95. Sakai Chemical Main Business
Table 96. Sakai Chemical Latest Developments
Table 97. TAYCA Corporation Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 98. TAYCA Corporation ZnO Nanoparticles Product Portfolios and Specifications
Table 99. TAYCA Corporation ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 100. TAYCA Corporation Main Business
Table 101. TAYCA Corporation Latest Developments
Table 102. Tata Chemicals Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 103. Tata Chemicals ZnO Nanoparticles Product Portfolios and Specifications
Table 104. Tata Chemicals ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 105. Tata Chemicals Main Business
Table 106. Tata Chemicals Latest Developments
Table 107. Solesence Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 108. Solesence ZnO Nanoparticles Product Portfolios and Specifications
Table 109. Solesence ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)
Table 110. Solesence Main Business
Table 111. Solesence Latest Developments
Table 112. Pan-Continental Chemical Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors
Table 113. Pan-Continental Chemical ZnO Nanoparticles Product Portfolios and Specifications

Table 114. Pan-Continental Chemical ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 115. Pan-Continental Chemical Main Business

Table 116. Pan-Continental Chemical Latest Developments

Table 117. Henan Yuguang Gold & Lead Co., Ltd. Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors

Table 118. Henan Yuguang Gold & Lead Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

Table 119. Henan Yuguang Gold & Lead Co., Ltd. ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 120. Henan Yuguang Gold & Lead Co., Ltd. Main Business

Table 121. Henan Yuguang Gold & Lead Co., Ltd. Latest Developments

Table 122. Shaanxi Sino Academy Nano-Material Co., Ltd. Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors

Table 123. Shaanxi Sino Academy Nano-Material Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

Table 124. Shaanxi Sino Academy Nano-Material Co., Ltd. ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 125. Shaanxi Sino Academy Nano-Material Co., Ltd. Main Business

Table 126. Shaanxi Sino Academy Nano-Material Co., Ltd. Latest Developments

Table 127. Shandong Xingya New Materials Co., Ltd. Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors

Table 128. Shandong Xingya New Materials Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

Table 129. Shandong Xingya New Materials Co., Ltd. ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 130. Shandong Xingya New Materials Co., Ltd. Main Business

Table 131. Shandong Xingya New Materials Co., Ltd. Latest Developments

Table 132. Jiyuan Lutai Nano Materials Co., Ltd. Basic Information, ZnO Nanoparticles Manufacturing Base, Sales Area and Its Competitors

Table 133. Jiyuan Lutai Nano Materials Co., Ltd. ZnO Nanoparticles Product Portfolios and Specifications

Table 134. Jiyuan Lutai Nano Materials Co., Ltd. ZnO Nanoparticles Sales (Tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 135. Jiyuan Lutai Nano Materials Co., Ltd. Main Business

Table 136. Jiyuan Lutai Nano Materials Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of ZnO Nanoparticles
- Figure 2. ZnO Nanoparticles Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global ZnO Nanoparticles Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global ZnO Nanoparticles Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. ZnO Nanoparticles Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. ZnO Nanoparticles Sales Market Share by Country/Region (2025)
- Figure 10. ZnO Nanoparticles Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Particle Size 60nm
- Figure 14. Global ZnO Nanoparticles Sales Market Share by Particle Size in 2026
- Figure 15. Global ZnO Nanoparticles Revenue Market Share by Particle Size (2021-2026)
- Figure 16. Product Picture of Uncoated
- Figure 17. Product Picture of Surface-treated
- Figure 18. Global ZnO Nanoparticles Sales Market Share by Surface Treatment in 2026
- Figure 19. Global ZnO Nanoparticles Revenue Market Share by Surface Treatment (2021-2026)
- Figure 20. Product Picture of Dry Powder
- Figure 21. Product Picture of Liquid Dispersion
- Figure 22. Global ZnO Nanoparticles Sales Market Share by Form in 2026
- Figure 23. Global ZnO Nanoparticles Revenue Market Share by Form (2021-2026)
- Figure 24. ZnO Nanoparticles Consumed in Rubber
- Figure 25. Global ZnO Nanoparticles Market: Rubber (2021-2026) & (Tons)
- Figure 26. ZnO Nanoparticles Consumed in Cosmetic
- Figure 27. Global ZnO Nanoparticles Market: Cosmetic (2021-2026) & (Tons)
- Figure 28. ZnO Nanoparticles Consumed in Coating
- Figure 29. Global ZnO Nanoparticles Market: Coating (2021-2026) & (Tons)
- Figure 30. ZnO Nanoparticles Consumed in Textile
- Figure 31. Global ZnO Nanoparticles Market: Textile (2021-2026) & (Tons)
- Figure 32. ZnO Nanoparticles Consumed in Others
- Figure 33. Global ZnO Nanoparticles Market: Others (2021-2026) & (Tons)

- Figure 34. Global ZnO Nanoparticles Sale Market Share by Application (2025)
- Figure 35. Global ZnO Nanoparticles Revenue Market Share by Application in 2025
- Figure 36. ZnO Nanoparticles Sales by Company in 2025 (Tons)
- Figure 37. Global ZnO Nanoparticles Sales Market Share by Company in 2025
- Figure 38. ZnO Nanoparticles Revenue by Company in 2025 (\$ millions)
- Figure 39. Global ZnO Nanoparticles Revenue Market Share by Company in 2025
- Figure 40. Global ZnO Nanoparticles Sales Market Share by Geographic Region (2021-2026)
- Figure 41. Global ZnO Nanoparticles Revenue Market Share by Geographic Region in 2025
- Figure 42. Americas ZnO Nanoparticles Sales 2021-2026 (Tons)
- Figure 43. Americas ZnO Nanoparticles Revenue 2021-2026 (\$ millions)
- Figure 44. APAC ZnO Nanoparticles Sales 2021-2026 (Tons)
- Figure 45. APAC ZnO Nanoparticles Revenue 2021-2026 (\$ millions)
- Figure 46. Europe ZnO Nanoparticles Sales 2021-2026 (Tons)
- Figure 47. Europe ZnO Nanoparticles Revenue 2021-2026 (\$ millions)
- Figure 48. Middle East & Africa ZnO Nanoparticles Sales 2021-2026 (Tons)
- Figure 49. Middle East & Africa ZnO Nanoparticles Revenue 2021-2026 (\$ millions)
- Figure 50. Americas ZnO Nanoparticles Sales Market Share by Country in 2025
- Figure 51. Americas ZnO Nanoparticles Revenue Market Share by Country (2021-2026)
- Figure 52. Americas ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
- Figure 53. Americas ZnO Nanoparticles Sales Market Share by Application (2021-2026)
- Figure 54. United States ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Canada ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Mexico ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Brazil ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 58. APAC ZnO Nanoparticles Sales Market Share by Region in 2025
- Figure 59. APAC ZnO Nanoparticles Revenue Market Share by Region (2021-2026)
- Figure 60. APAC ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
- Figure 61. APAC ZnO Nanoparticles Sales Market Share by Application (2021-2026)
- Figure 62. China ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Japan ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 64. South Korea ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Southeast Asia ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 66. India ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Australia ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 68. China Taiwan ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Europe ZnO Nanoparticles Sales Market Share by Country in 2025

- Figure 70. Europe ZnO Nanoparticles Revenue Market Share by Country (2021-2026)
- Figure 71. Europe ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
- Figure 72. Europe ZnO Nanoparticles Sales Market Share by Application (2021-2026)
- Figure 73. Germany ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 74. France ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 75. UK ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Italy ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Russia ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Middle East & Africa ZnO Nanoparticles Sales Market Share by Country (2021-2026)
- Figure 79. Middle East & Africa ZnO Nanoparticles Sales Market Share by Particle Size (2021-2026)
- Figure 80. Middle East & Africa ZnO Nanoparticles Sales Market Share by Application (2021-2026)
- Figure 81. Egypt ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 82. South Africa ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Israel ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Turkey ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 85. GCC Countries ZnO Nanoparticles Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Manufacturing Cost Structure Analysis of ZnO Nanoparticles in 2026
- Figure 87. Manufacturing Process Analysis of ZnO Nanoparticles
- Figure 88. Industry Chain Structure of ZnO Nanoparticles
- Figure 89. Channels of Distribution
- Figure 90. Global ZnO Nanoparticles Sales Market Forecast by Region (2027-2032)
- Figure 91. Global ZnO Nanoparticles Revenue Market Share Forecast by Region (2027-2032)
- Figure 92. Global ZnO Nanoparticles Sales Market Share Forecast by Particle Size (2027-2032)
- Figure 93. Global ZnO Nanoparticles Revenue Market Share Forecast by Particle Size (2027-2032)
- Figure 94. Global ZnO Nanoparticles Sales Market Share Forecast by Application (2027-2032)
- Figure 95. Global ZnO Nanoparticles Revenue Market Share Forecast by Application (2027-2032)

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