

Global Magnesium Oxide Nanopowder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnesium Oxide Nanopowder market size is expected to reach \$ 1350 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

Nano-magnesium oxide powder is a functional inorganic powder material primarily composed of magnesium oxide, characterized by nanoscale particle sizes or nanostructural features. Typically appearing as a white or off-white powder, it exhibits high specific surface area, high thermal stability, electrical insulation, adsorption capabilities, surface alkalinity, flame-retardant synergism, and strong surface reactivity. It is primarily used in electronic ceramics, catalyst supports, thermally conductive fillers, coatings, plastics, rubber, antibacterial materials, environmental adsorption materials, and scientific research. In 2025, global sales volume for nano-magnesium oxide powder is approximately 26,200 metric tons, with an average unit price of about \$27,939 per ton; the industry's average capacity utilization rate is around 68.5%, and the gross profit margin is approximately 35.6%. Upstream enterprises primarily supply high-purity magnesium salts, high-purity magnesium oxide, magnesium hydroxide, precipitants, dispersants, surface treatment agents, gases, and equipment for powder processing, calcination, drying, testing, and packaging. Downstream sectors include electronic materials, advanced ceramics, catalysts, thermally conductive materials, flame-retardant plastics, functional coatings, antibacterial materials, environmental adsorption materials, and scientific research institutions. The product cost structure comprises: high-purity magnesium raw materials (approx. 28%); auxiliary materials for precipitation, hydrothermal, sol-gel, or gas-phase synthesis (approx. 12%); calcination, drying, and energy costs (approx. 11%); surface modification and dispersion materials (approx. 8%); labor and manufacturing overhead (approx. 10%); testing for particle size, purity, and impurities (approx. 7%); environmental treatment (approx. 6%); packaging,

warehousing, and logistics (approx. 6%); and equipment depreciation, R&D, and administrative expenses (approx. 12%). The product demand list includes high-purity nano-magnesium oxide, thermally conductive grade, electronic ceramic grade, catalyst support grade, antibacterial coating grade, flame-retardant synergist grade, adsorption material grade, and small-package products for research; the downstream customer list includes electronic ceramic manufacturers, thermal adhesive and thermal pad companies, catalyst manufacturers, coating companies, plastic modification firms, rubber product manufacturers, environmental material companies, university laboratories, research institutes, and new material R&D companies. In terms of business opportunities, policy drivers include the localization of new materials, the independent supply of electronic materials, upgrades to energy-efficient thermal management materials, the development of eco-friendly adsorption materials, and the standardized application of antimicrobial functional materials. Technological innovation is driven by advancements in high-purity preparation, narrow particle size control, low-agglomeration processing, surface modification, stable dispersions, gas-phase powder synthesis, and application-specific custom formulations. Meanwhile, shifting consumer demands are driving downstream customers to upgrade from standard fillers to nanopowders characterized by high purity, high dispersibility, low impurity levels, batch-to-batch consistency, and clearly defined functionalities.

The nano-magnesium oxide powder industry represents a niche yet high-growth segment within the advanced inorganic powder sector; while its overall market volume is significantly smaller than that of standard, dead-burned, or fused magnesium oxide, it commands higher unit values ??and entails greater technical barriers to entry. Core growth is driven not by the replacement of bulk refractory materials, but by rising demand?across sectors such as electronic ceramics, thermal conductive fillers, functional coatings, catalyst supports, antimicrobial materials, and environmental adsorbents?for products characterized by high purity, fine particle size, high specific surface area, and stable dispersion performance. The market is currently characterized by fragmented specifications, lengthy customer validation cycles, high prices for research-grade products, and a slow ramp-up in industrial-scale volumes; significant price disparities exist between enterprises, with the unit price of certain high-purity, small-package products far exceeding that of industrial-grade bulk goods. Over the next six to eight years, demand for nano-magnesium oxide powder is expected to grow rapidly, driven by advancements in new energy vehicle electronics, communication equipment, power devices, thermal management materials, environmental protection technologies, and functional polymer materials; however, the industry is unlikely to see disorderly, large-scale capacity expansion, as customers increasingly prioritize particle size distribution, impurity levels, dispersibility, surface treatment, and batch-to-batch

consistency. Chinese enterprises hold advantages in cost, customization capabilities, and industrial-scale supply, whereas European, American, and Japanese firms excel in high-purity specifications, quality management systems, and access to research-oriented clientele. Companies possessing stable manufacturing processes, comprehensive testing capabilities, surface modification expertise, and application-oriented technical support services will be better positioned to secure high-margin orders than suppliers who merely sell generic powders.

This report studies the global Magnesium Oxide Nanopowder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium Oxide Nanopowder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnesium Oxide Nanopowder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnesium Oxide Nanopowder total production and demand, 2021-2032, (Tons)

Global Magnesium Oxide Nanopowder total production value, 2021-2032, (USD Million)

Global Magnesium Oxide Nanopowder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Magnesium Oxide Nanopowder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Magnesium Oxide Nanopowder domestic production, consumption, key domestic manufacturers and share

Global Magnesium Oxide Nanopowder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Magnesium Oxide Nanopowder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Magnesium Oxide Nanopowder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Magnesium Oxide Nanopowder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include UBE Corporation (JP), American Elements (US), Merck KGaA (DE), NanoAmor (US), SkySpring Nanomaterials, Inc. (US), US Research Nanomaterials, Inc. (US), Beijing Deke Daojin Technology Co., Ltd.

(CN), Xuan Cheng Jing Rui New Material Co., Ltd. (CN), Nanoshel LLC (US), Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnesium Oxide Nanopowder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnesium Oxide Nanopowder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Oxide Nanopowder Market, Segmentation by Type:

Particle Size

Contents

1 SUPPLY SUMMARY

- 1.1 Magnesium Oxide Nanopowder Introduction
- 1.2 World Magnesium Oxide Nanopowder Supply & Forecast
 - 1.2.1 World Magnesium Oxide Nanopowder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Magnesium Oxide Nanopowder Production (2021-2032)
 - 1.2.3 World Magnesium Oxide Nanopowder Pricing Trends (2021-2032)
- 1.3 World Magnesium Oxide Nanopowder Production by Region (Based on Production Site)
 - 1.3.1 World Magnesium Oxide Nanopowder Production Value by Region (2021-2032)
 - 1.3.2 World Magnesium Oxide Nanopowder Production by Region (2021-2032)
 - 1.3.3 World Magnesium Oxide Nanopowder Average Price by Region (2021-2032)
 - 1.3.4 North America Magnesium Oxide Nanopowder Production (2021-2032)
 - 1.3.5 Europe Magnesium Oxide Nanopowder Production (2021-2032)
 - 1.3.6 China Magnesium Oxide Nanopowder Production (2021-2032)
 - 1.3.7 Japan Magnesium Oxide Nanopowder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Magnesium Oxide Nanopowder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Magnesium Oxide Nanopowder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Magnesium Oxide Nanopowder Demand (2021-2032)
- 2.2 World Magnesium Oxide Nanopowder Consumption by Region
 - 2.2.1 World Magnesium Oxide Nanopowder Consumption by Region (2021-2026)
 - 2.2.2 World Magnesium Oxide Nanopowder Consumption Forecast by Region (2027-2032)
- 2.3 United States Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.4 China Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.5 Europe Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.6 Japan Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.7 South Korea Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.8 ASEAN Magnesium Oxide Nanopowder Consumption (2021-2032)
- 2.9 India Magnesium Oxide Nanopowder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Magnesium Oxide Nanopowder Production Value by Manufacturer (2021-2026)
- 3.2 World Magnesium Oxide Nanopowder Production by Manufacturer (2021-2026)
- 3.3 World Magnesium Oxide Nanopowder Average Price by Manufacturer (2021-2026)
- 3.4 Magnesium Oxide Nanopowder Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Magnesium Oxide Nanopowder Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Magnesium Oxide Nanopowder in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Magnesium Oxide Nanopowder in 2025
- 3.6 Magnesium Oxide Nanopowder Market: Overall Company Footprint Analysis
 - 3.6.1 Magnesium Oxide Nanopowder Market: Region Footprint
 - 3.6.2 Magnesium Oxide Nanopowder Market: Company Product Type Footprint
 - 3.6.3 Magnesium Oxide Nanopowder Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Magnesium Oxide Nanopowder Production Value Comparison
 - 4.1.1 United States VS China: Magnesium Oxide Nanopowder Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Magnesium Oxide Nanopowder Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Magnesium Oxide Nanopowder Production Comparison
 - 4.2.1 United States VS China: Magnesium Oxide Nanopowder Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Magnesium Oxide Nanopowder Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Magnesium Oxide Nanopowder Consumption Comparison
 - 4.3.1 United States VS China: Magnesium Oxide Nanopowder Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Magnesium Oxide Nanopowder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Magnesium Oxide Nanopowder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Magnesium Oxide Nanopowder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Magnesium Oxide Nanopowder Production (2021-2026)

4.5 China Based Magnesium Oxide Nanopowder Manufacturers and Market Share

4.5.1 China Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Magnesium Oxide Nanopowder Production Value (2021-2026)

4.5.3 China Based Manufacturers Magnesium Oxide Nanopowder Production (2021-2026)

4.6 Rest of World Based Magnesium Oxide Nanopowder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Magnesium Oxide Nanopowder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Particle Size

List Of Tables

LIST OF TABLES

Table 1. World Magnesium Oxide Nanopowder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Magnesium Oxide Nanopowder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Magnesium Oxide Nanopowder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Magnesium Oxide Nanopowder Production Value Market Share by Region (2021-2026)

Table 5. World Magnesium Oxide Nanopowder Production Value Market Share by Region (2027-2032)

Table 6. World Magnesium Oxide Nanopowder Production by Region (2021-2026) & (Tons)

Table 7. World Magnesium Oxide Nanopowder Production by Region (2027-2032) & (Tons)

Table 8. World Magnesium Oxide Nanopowder Production Market Share by Region (2021-2026)

Table 9. World Magnesium Oxide Nanopowder Production Market Share by Region (2027-2032)

Table 10. World Magnesium Oxide Nanopowder Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Magnesium Oxide Nanopowder Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Magnesium Oxide Nanopowder Major Market Trends

Table 13. World Magnesium Oxide Nanopowder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Magnesium Oxide Nanopowder Consumption by Region (2021-2026) & (Tons)

Table 15. World Magnesium Oxide Nanopowder Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Magnesium Oxide Nanopowder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Magnesium Oxide Nanopowder Producers in 2025

Table 18. World Magnesium Oxide Nanopowder Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Magnesium Oxide Nanopowder Producers in 2025

Table 20. World Magnesium Oxide Nanopowder Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Magnesium Oxide Nanopowder Company Evaluation Quadrant

Table 22. World Magnesium Oxide Nanopowder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Magnesium Oxide Nanopowder Production Site of Key Manufacturer

Table 24. Magnesium Oxide Nanopowder Market: Company Product Type Footprint

Table 25. Magnesium Oxide Nanopowder Market: Company Product Application Footprint

Table 26. Magnesium Oxide Nanopowder Competitive Factors

Table 27. Magnesium Oxide Nanopowder New Entrant and Capacity Expansion Plans

Table 28. Magnesium Oxide Nanopowder Mergers & Acquisitions Activity

Table 29. United States VS China Magnesium Oxide Nanopowder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Magnesium Oxide Nanopowder Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Magnesium Oxide Nanopowder Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Magnesium Oxide Nanopowder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Magnesium Oxide Nanopowder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Magnesium Oxide Nanopowder Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Magnesium Oxide Nanopowder Production Market Share (2021-2026)

Table 37. China Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Magnesium Oxide Nanopowder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Magnesium Oxide Nanopowder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Magnesium Oxide Nanopowder Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Magnesium Oxide Nanopowder Production Market Share (2021-2026)

Table 42. Rest of World Based Magnesium Oxide Nanopowder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production Market Share (2021-2026)

Table 47. World Magnesium Oxide Nanopowder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Magnesium Oxide Nanopowder Production by Type (2021-2026) & (Tons)

Table 49. World Magnesium Oxide Nanopowder Production by Type (2027-2032) & (Tons)

Table 50. World Magnesium Oxide Nanopowder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Magnesium Oxide Nanopowder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Magnesium Oxide Nanopowder Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Magnesium Oxide Nanopowder Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Magnesium Oxide Nanopowder Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 55. World Magnesium Oxide Nanopowder Production by Purity (2021-2026) & (Tons)

Table 56. World Magnesium Oxide Nanopowder Production by Purity (2027-2032) & (Tons)

Table 57. World Magnesium Oxide Nanopowder Production Value by Purity (2021-2026) & (USD Million)

Table 58. World Magnesium Oxide Nanopowder Production Value by Purity (2027-2032) & (USD Million)

Table 59. World Magnesium Oxide Nanopowder Average Price by Purity (2021-2026) & (US\$/Ton)

Table 60. World Magnesium Oxide Nanopowder Average Price by Purity (2027-2032) &

(US\$/Ton)

Table 61. World Magnesium Oxide Nanopowder Production Value by Temperature Resistance, (USD Million), 2021 & 2025 & 2032

Table 62. World Magnesium Oxide Nanopowder Production by Temperature Resistance (2021-2026) & (Tons)

Table 63. World Magnesium Oxide Nanopowder Production by Temperature Resistance (2027-2032) & (Tons)

Table 64. World Magnesium Oxide Nanopowder Production Value by Temperature Resistance (2021-2026) & (USD Million)

Table 65. World Magnesium Oxide Nanopowder Production Value by Temperature Resistance (2027-2032) & (USD Million)

Table 66. World Magnesium Oxide Nanopowder Average Price by Temperature Resistance (2021-2026) & (US\$/Ton)

Table 67. World Magnesium Oxide Nanopowder Average Price by Temperature Resistance (2027-2032) & (US\$/Ton)

Table 68. World Magnesium Oxide Nanopowder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Magnesium Oxide Nanopowder Production by Application (2021-2026) & (Tons)

Table 70. World Magnesium Oxide Nanopowder Production by Application (2027-2032) & (Tons)

Table 71. World Magnesium Oxide Nanopowder Production Value by Application (2021-2026) & (USD Million)

Table 72. World Magnesium Oxide Nanopowder Production Value by Application (2027-2032) & (USD Million)

Table 73. World Magnesium Oxide Nanopowder Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Magnesium Oxide Nanopowder Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. UBE Corporation (JP) Basic Information, Manufacturing Base and Competitors

Table 76. UBE Corporation (JP) Major Business

Table 77. UBE Corporation (JP) Magnesium Oxide Nanopowder Product and Services

Table 78. UBE Corporation (JP) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. UBE Corporation (JP) Recent Developments/Updates

Table 80. UBE Corporation (JP) Competitive Strengths & Weaknesses

Table 81. American Elements (US) Basic Information, Manufacturing Base and

Competitors

Table 82. American Elements (US) Major Business

Table 83. American Elements (US) Magnesium Oxide Nanopowder Product and Services

Table 84. American Elements (US) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. American Elements (US) Recent Developments/Updates

Table 86. American Elements (US) Competitive Strengths & Weaknesses

Table 87. Merck KGaA (DE) Basic Information, Manufacturing Base and Competitors

Table 88. Merck KGaA (DE) Major Business

Table 89. Merck KGaA (DE) Magnesium Oxide Nanopowder Product and Services

Table 90. Merck KGaA (DE) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Merck KGaA (DE) Recent Developments/Updates

Table 92. Merck KGaA (DE) Competitive Strengths & Weaknesses

Table 93. NanoAmor (US) Basic Information, Manufacturing Base and Competitors

Table 94. NanoAmor (US) Major Business

Table 95. NanoAmor (US) Magnesium Oxide Nanopowder Product and Services

Table 96. NanoAmor (US) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. NanoAmor (US) Recent Developments/Updates

Table 98. NanoAmor (US) Competitive Strengths & Weaknesses

Table 99. SkySpring Nanomaterials, Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 100. SkySpring Nanomaterials, Inc. (US) Major Business

Table 101. SkySpring Nanomaterials, Inc. (US) Magnesium Oxide Nanopowder Product and Services

Table 102. SkySpring Nanomaterials, Inc. (US) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SkySpring Nanomaterials, Inc. (US) Recent Developments/Updates

Table 104. SkySpring Nanomaterials, Inc. (US) Competitive Strengths & Weaknesses

Table 105. US Research Nanomaterials, Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 106. US Research Nanomaterials, Inc. (US) Major Business

Table 107. US Research Nanomaterials, Inc. (US) Magnesium Oxide Nanopowder

Product and Services

Table 108. US Research Nanomaterials, Inc. (US) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. US Research Nanomaterials, Inc. (US) Recent Developments/Updates

Table 110. US Research Nanomaterials, Inc. (US) Competitive Strengths & Weaknesses

Table 111. Beijing Deke Daojin Technology Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 112. Beijing Deke Daojin Technology Co., Ltd. (CN) Major Business

Table 113. Beijing Deke Daojin Technology Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 114. Beijing Deke Daojin Technology Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Beijing Deke Daojin Technology Co., Ltd. (CN) Recent Developments/Updates

Table 116. Beijing Deke Daojin Technology Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 117. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 118. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Major Business

Table 119. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 120. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Recent Developments/Updates

Table 122. Xuan Cheng Jing Rui New Material Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 123. Nanoshel LLC (US) Basic Information, Manufacturing Base and Competitors

Table 124. Nanoshel LLC (US) Major Business

Table 125. Nanoshel LLC (US) Magnesium Oxide Nanopowder Product and Services

Table 126. Nanoshel LLC (US) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Nanoshel LLC (US) Recent Developments/Updates

Table 128. Nanoshel LLC (US) Competitive Strengths & Weaknesses

Table 129. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 130. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Major Business

Table 131. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 132. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Recent Developments/Updates

Table 134. Hefei Zhonghang Nanometer Technology Development Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 135. Hangzhou Hengna New Material Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 136. Hangzhou Hengna New Material Co., Ltd. (CN) Major Business

Table 137. Hangzhou Hengna New Material Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 138. Hangzhou Hengna New Material Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Hangzhou Hengna New Material Co., Ltd. (CN) Recent Developments/Updates

Table 140. Hangzhou Hengna New Material Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 141. Suzhou Yougui Nano Materials Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 142. Suzhou Yougui Nano Materials Co., Ltd. (CN) Major Business

Table 143. Suzhou Yougui Nano Materials Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 144. Suzhou Yougui Nano Materials Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Suzhou Yougui Nano Materials Co., Ltd. (CN) Recent Developments/Updates

Table 146. Suzhou Yougui Nano Materials Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 147. Hebei Meishen Technology Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 148. Hebei Meishen Technology Co., Ltd. (CN) Major Business

Table 149. Hebei Meishen Technology Co., Ltd. (CN) Magnesium Oxide Nanopowder Product and Services

Table 150. Hebei Meishen Technology Co., Ltd. (CN) Magnesium Oxide Nanopowder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hebei Meishen Technology Co., Ltd. (CN) Recent Developments/Updates

Table 152. Hebei Meishen Technology Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 153. Global Key Players of Magnesium Oxide Nanopowder Upstream (Raw Materials)

Table 154. Global Magnesium Oxide Nanopowder Typical Customers

Table 155. Magnesium Oxide Nanopowder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Magnesium Oxide Nanopowder Picture

Figure 2. World Magnesium Oxide Nanopowder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Magnesium Oxide Nanopowder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Magnesium Oxide Nanopowder Production (2021-2032) & (Tons)

Figure 5. World Magnesium Oxide Nanopowder Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Magnesium Oxide Nanopowder Production Value Market Share by Region (2021-2032)

Figure 7. World Magnesium Oxide Nanopowder Production Market Share by Region (2021-2032)

Figure 8. North America Magnesium Oxide Nanopowder Production (2021-2032) & (Tons)

Figure 9. Europe Magnesium Oxide Nanopowder Production (2021-2032) & (Tons)

Figure 10. China Magnesium Oxide Nanopowder Production (2021-2032) & (Tons)

Figure 11. Japan Magnesium Oxide Nanopowder Production (2021-2032) & (Tons)

Figure 12. Magnesium Oxide Nanopowder Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 15. World Magnesium Oxide Nanopowder Consumption Market Share by Region (2021-2032)

Figure 16. United States Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 17. China Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 18. Europe Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 19. Japan Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 20. South Korea Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 22. India Magnesium Oxide Nanopowder Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Magnesium Oxide Nanopowder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Magnesium Oxide Nanopowder Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Magnesium Oxide Nanopowder Markets in 2025

Figure 26. United States VS China: Magnesium Oxide Nanopowder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Magnesium Oxide Nanopowder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Magnesium Oxide Nanopowder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Magnesium Oxide Nanopowder Production Market Share 2025

Figure 30. China Based Manufacturers Magnesium Oxide Nanopowder Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Magnesium Oxide Nanopowder Production Market Share 2025

Figure 32. World Magnesium Oxide Nanopowder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Magnesium Oxide Nanopowder Production Value Market Share by Type in 2025

Figure 34. Particle Size

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