

Global High Purity Yttrium Oxide Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Purity Yttrium Oxide Powder market size is expected to reach \$ 632 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

High purity yttrium oxide powder is a functional ceramic raw material synthesized through a controlled process, characterized by high chemical purity, low content of key impurities, and a specific and uniform physical morphology. It is a 'specification material' designed to meet the extreme material demands of fields such as semiconductors, cutting-edge lasers, high-performance aerospace alloy smelting, and advanced scientific research. The upstream supply chain begins with rare earth separation and refining giants, who purify yttrium oxide from minerals, followed by precision processing such as nano-sizing and spheroidization by specialized ceramic powder experts. The downstream primarily serves three cutting-edge manufacturing sectors: first, semiconductor equipment manufacturers, using it to manufacture thin-film deposition targets and wafer processing components; second, high-end refractory materials and coating solution providers (serving aerospace alloy smelting); and third, the optoelectronic industry, using it to prepare laser crystals, phosphors, and transparent ceramics. The fundamental driving force behind this demand stems from these industries' pursuit of extreme material performance: semiconductors demand atomic-level purity and precise thin-film control, aero-engines require resistance to the erosion of ultra-high-temperature active metal melts, and laser weapons and medical equipment require irreplaceable optical performance. In 2025, the production of high purity yttrium oxide powder will be approximately 8,000 tons, with an average selling price of approximately US\$40,000 per ton, a gross profit margin of approximately 40%, and a single production line capacity of 200 tons per year.

The core driving force behind the high purity yttrium oxide powder market is rooted in the pursuit of extreme material performance by downstream cutting-edge industries. First, process upgrades in the semiconductor industry are a key engine; the miniaturization of chip manufacturing processes and the improvement of thin-film deposition precision place atomic-level purity requirements on yttrium oxide powder used in the manufacture of targets and etched components. Second, the aerospace and defense sectors have an urgent need for extreme materials; yttrium oxide, as a thermal barrier coating material, is crucial for protecting aero-engine and turbine components from ultra-high temperature corrosion. Third, innovations in optoelectronic technology continue to drive demand; whether for laser crystal growth, high-performance phosphor preparation, or the development of transparent ceramics, all rely on its irreplaceable optical properties.

This report studies the global High Purity Yttrium Oxide Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Purity Yttrium Oxide Powder total production and demand, 2021-2032, (Tons)

Global High Purity Yttrium Oxide Powder total production value, 2021-2032, (USD Million)

Global High Purity Yttrium Oxide Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Purity Yttrium Oxide Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Purity Yttrium Oxide Powder domestic production, consumption, key domestic manufacturers and share

Global High Purity Yttrium Oxide Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Purity Yttrium Oxide Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Purity Yttrium Oxide Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity Yttrium Oxide Powder 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 Solvay S.A, Stanford Materials Corporation, Ossila, Treibacher Industrie AG, Nano Research Elements, China Rare Earth Group, Shenghe Resources Holding Co., Ltd, China Northern Rare Earth (Group) High-Tech Co., Ltd, Tinsan Materials, NewMet, 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 High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Yttrium Oxide Powder Market, Segmentation by Type:

Micron-sized Powder

Nano-sized Powder

Global High Purity Yttrium Oxide Powder Market, Segmentation by Physical Form:

Polyhedral Powder

Spherical Powder

Global High Purity Yttrium Oxide Powder Market, Segmentation by Function:

Phosphor Grade

Ceramic Grade

Crystal Grade

Spray Grade

Global High Purity Yttrium Oxide Powder Market, Segmentation by Application:

Semiconductors

Aerospace

Optoelectronics

Other

Companies Profiled:

Solvay S.A

Stanford Materials Corporation

Ossila

Treibacher Industrie AG

Nano Research Elements

China Rare Earth Group

Shenghe Resources Holding Co., Ltd

China Northern Rare Earth (Group) High-Tech Co., Ltd

Tinsan Materials

NewMet

Menssing Chemiehandel & Consultants GmbH

Particular Materials

Key Questions Answered:

1. How big is the global High Purity Yttrium Oxide Powder market?
2. What is the demand of the global High Purity Yttrium Oxide Powder market?
3. What is the year over year growth of the global High Purity Yttrium Oxide Powder market?
4. What is the production and production value of the global High Purity Yttrium Oxide Powder market?
5. Who are the key producers in the global High Purity Yttrium Oxide Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

2.9 India High Purity Yttrium Oxide Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High Purity Yttrium Oxide Powder Production Value by Manufacturer (2021-2026)

3.2 World High Purity Yttrium Oxide Powder Production by Manufacturer (2021-2026)

3.3 World High Purity Yttrium Oxide Powder Average Price by Manufacturer (2021-2026)

3.4 High Purity Yttrium Oxide Powder Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High Purity Yttrium Oxide Powder Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High Purity Yttrium Oxide Powder in 2025

3.5.3 Global Concentration Ratios (CR8) for High Purity Yttrium Oxide Powder in 2025

3.6 High Purity Yttrium Oxide Powder Market: Overall Company Footprint Analysis

3.6.1 High Purity Yttrium Oxide Powder Market: Region Footprint

3.6.2 High Purity Yttrium Oxide Powder Market: Company Product Type Footprint

3.6.3 High Purity Yttrium Oxide Powder 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: High Purity Yttrium Oxide Powder Production Value Comparison

4.1.1 United States VS China: High Purity Yttrium Oxide Powder Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High Purity Yttrium Oxide Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High Purity Yttrium Oxide Powder Production Comparison

4.2.1 United States VS China: High Purity Yttrium Oxide Powder Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High Purity Yttrium Oxide Powder Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High Purity Yttrium Oxide Powder Consumption Comparison

4.3.1 United States VS China: High Purity Yttrium Oxide Powder Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High Purity Yttrium Oxide Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High Purity Yttrium Oxide Powder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Purity Yttrium Oxide Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Purity Yttrium Oxide Powder Production (2021-2026)

4.5 China Based High Purity Yttrium Oxide Powder Manufacturers and Market Share

4.5.1 China Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Purity Yttrium Oxide Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers High Purity Yttrium Oxide Powder Production (2021-2026)

4.6 Rest of World Based High Purity Yttrium Oxide Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High Purity Yttrium Oxide Powder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Micron-sized Powder

5.2.2 Nano-sized Powder

5.3 Market Segment by Type

5.3.1 World High Purity Yttrium Oxide Powder Production by Type (2021-2032)

- 5.3.2 World High Purity Yttrium Oxide Powder Production Value by Type (2021-2032)
- 5.3.3 World High Purity Yttrium Oxide Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PHYSICAL FORM

- 6.1 World High Purity Yttrium Oxide Powder Market Size Overview by Physical Form: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Physical Form
 - 6.2.1 Polyhedral Powder
 - 6.2.2 Spherical Powder
- 6.3 Market Segment by Physical Form
 - 6.3.1 World High Purity Yttrium Oxide Powder Production by Physical Form (2021-2032)
 - 6.3.2 World High Purity Yttrium Oxide Powder Production Value by Physical Form (2021-2032)
 - 6.3.3 World High Purity Yttrium Oxide Powder Average Price by Physical Form (2021-2032)

7 MARKET ANALYSIS BY FUNCTION

- 7.1 World High Purity Yttrium Oxide Powder Market Size Overview by Function: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Function
 - 7.2.1 Phosphor Grade
 - 7.2.2 Ceramic Grade
 - 7.2.3 Crystal Grade
 - 7.2.4 Spray Grade
- 7.3 Market Segment by Function
 - 7.3.1 World High Purity Yttrium Oxide Powder Production by Function (2021-2032)
 - 7.3.2 World High Purity Yttrium Oxide Powder Production Value by Function (2021-2032)
 - 7.3.3 World High Purity Yttrium Oxide Powder Average Price by Function (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World High Purity Yttrium Oxide Powder Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Semiconductors

8.2.2 Aerospace

8.2.3 Optoelectronics

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World High Purity Yttrium Oxide Powder Production by Application (2021-2032)

8.3.2 World High Purity Yttrium Oxide Powder Production Value by Application (2021-2032)

8.3.3 World High Purity Yttrium Oxide Powder Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Solvay S.A

9.1.1 Solvay S.A Details

9.1.2 Solvay S.A Major Business

9.1.3 Solvay S.A High Purity Yttrium Oxide Powder Product and Services

9.1.4 Solvay S.A High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Solvay S.A Recent Developments/Updates

9.1.6 Solvay S.A Competitive Strengths & Weaknesses

9.2 Stanford Materials Corporation

9.2.1 Stanford Materials Corporation Details

9.2.2 Stanford Materials Corporation Major Business

9.2.3 Stanford Materials Corporation High Purity Yttrium Oxide Powder Product and Services

9.2.4 Stanford Materials Corporation High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Stanford Materials Corporation Recent Developments/Updates

9.2.6 Stanford Materials Corporation Competitive Strengths & Weaknesses

9.3 Ossila

9.3.1 Ossila Details

9.3.2 Ossila Major Business

9.3.3 Ossila High Purity Yttrium Oxide Powder Product and Services

9.3.4 Ossila High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Ossila Recent Developments/Updates

9.3.6 Ossila Competitive Strengths & Weaknesses

9.4 Treibacher Industrie AG

9.4.1 Treibacher Industrie AG Details

- 9.4.2 Treibacher Industrie AG Major Business
- 9.4.3 Treibacher Industrie AG High Purity Yttrium Oxide Powder Product and Services
- 9.4.4 Treibacher Industrie AG High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Treibacher Industrie AG Recent Developments/Updates
- 9.4.6 Treibacher Industrie AG Competitive Strengths & Weaknesses
- 9.5 Nano Research Elements
 - 9.5.1 Nano Research Elements Details
 - 9.5.2 Nano Research Elements Major Business
 - 9.5.3 Nano Research Elements High Purity Yttrium Oxide Powder Product and Services
 - 9.5.4 Nano Research Elements High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Nano Research Elements Recent Developments/Updates
 - 9.5.6 Nano Research Elements Competitive Strengths & Weaknesses
- 9.6 China Rare Earth Group
 - 9.6.1 China Rare Earth Group Details
 - 9.6.2 China Rare Earth Group Major Business
 - 9.6.3 China Rare Earth Group High Purity Yttrium Oxide Powder Product and Services
 - 9.6.4 China Rare Earth Group High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 China Rare Earth Group Recent Developments/Updates
 - 9.6.6 China Rare Earth Group Competitive Strengths & Weaknesses
- 9.7 Shenghe Resources Holding Co., Ltd
 - 9.7.1 Shenghe Resources Holding Co., Ltd Details
 - 9.7.2 Shenghe Resources Holding Co., Ltd Major Business
 - 9.7.3 Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Product and Services
 - 9.7.4 Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Shenghe Resources Holding Co., Ltd Recent Developments/Updates
 - 9.7.6 Shenghe Resources Holding Co., Ltd Competitive Strengths & Weaknesses
- 9.8 China Northern Rare Earth (Group) High-Tech Co., Ltd
 - 9.8.1 China Northern Rare Earth (Group) High-Tech Co., Ltd Details
 - 9.8.2 China Northern Rare Earth (Group) High-Tech Co., Ltd Major Business
 - 9.8.3 China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Product and Services
 - 9.8.4 China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 China Northern Rare Earth (Group) High-Tech Co., Ltd Recent Developments/Updates

9.8.6 China Northern Rare Earth (Group) High-Tech Co., Ltd Competitive Strengths & Weaknesses

9.9 Tinsan Materials

9.9.1 Tinsan Materials Details

9.9.2 Tinsan Materials Major Business

9.9.3 Tinsan Materials High Purity Yttrium Oxide Powder Product and Services

9.9.4 Tinsan Materials High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Tinsan Materials Recent Developments/Updates

9.9.6 Tinsan Materials Competitive Strengths & Weaknesses

9.10 NewMet

9.10.1 NewMet Details

9.10.2 NewMet Major Business

9.10.3 NewMet High Purity Yttrium Oxide Powder Product and Services

9.10.4 NewMet High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 NewMet Recent Developments/Updates

9.10.6 NewMet Competitive Strengths & Weaknesses

9.11 Menssing Chemiehandel & Consultants GmbH

9.11.1 Menssing Chemiehandel & Consultants GmbH Details

9.11.2 Menssing Chemiehandel & Consultants GmbH Major Business

9.11.3 Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Product and Services

9.11.4 Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Menssing Chemiehandel & Consultants GmbH Recent Developments/Updates

9.11.6 Menssing Chemiehandel & Consultants GmbH Competitive Strengths & Weaknesses

9.12 Particular Materials

9.12.1 Particular Materials Details

9.12.2 Particular Materials Major Business

9.12.3 Particular Materials High Purity Yttrium Oxide Powder Product and Services

9.12.4 Particular Materials High Purity Yttrium Oxide Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Particular Materials Recent Developments/Updates

9.12.6 Particular Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 High Purity Yttrium Oxide Powder Industry Chain
- 10.2 High Purity Yttrium Oxide Powder Upstream Analysis
 - 10.2.1 High Purity Yttrium Oxide Powder Core Raw Materials
 - 10.2.2 Main Manufacturers of High Purity Yttrium Oxide Powder Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High Purity Yttrium Oxide Powder Production Mode
- 10.6 High Purity Yttrium Oxide Powder Procurement Model
- 10.7 High Purity Yttrium Oxide Powder Industry Sales Model and Sales Channels
 - 10.7.1 High Purity Yttrium Oxide Powder Sales Model
 - 10.7.2 High Purity Yttrium Oxide Powder Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High Purity Yttrium Oxide Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Purity Yttrium Oxide Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Purity Yttrium Oxide Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Purity Yttrium Oxide Powder Production Value Market Share by Region (2021-2026)

Table 5. World High Purity Yttrium Oxide Powder Production Value Market Share by Region (2027-2032)

Table 6. World High Purity Yttrium Oxide Powder Production by Region (2021-2026) & (Tons)

Table 7. World High Purity Yttrium Oxide Powder Production by Region (2027-2032) & (Tons)

Table 8. World High Purity Yttrium Oxide Powder Production Market Share by Region (2021-2026)

Table 9. World High Purity Yttrium Oxide Powder Production Market Share by Region (2027-2032)

Table 10. World High Purity Yttrium Oxide Powder Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World High Purity Yttrium Oxide Powder Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. High Purity Yttrium Oxide Powder Major Market Trends

Table 13. World High Purity Yttrium Oxide Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World High Purity Yttrium Oxide Powder Consumption by Region (2021-2026) & (Tons)

Table 15. World High Purity Yttrium Oxide Powder Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World High Purity Yttrium Oxide Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Purity Yttrium Oxide Powder Producers in 2025

Table 18. World High Purity Yttrium Oxide Powder Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key High Purity Yttrium Oxide Powder Producers in 2025

Table 20. World High Purity Yttrium Oxide Powder Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global High Purity Yttrium Oxide Powder Company Evaluation Quadrant

Table 22. World High Purity Yttrium Oxide Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Purity Yttrium Oxide Powder Production Site of Key Manufacturer

Table 24. High Purity Yttrium Oxide Powder Market: Company Product Type Footprint

Table 25. High Purity Yttrium Oxide Powder Market: Company Product Application Footprint

Table 26. High Purity Yttrium Oxide Powder Competitive Factors

Table 27. High Purity Yttrium Oxide Powder New Entrant and Capacity Expansion Plans

Table 28. High Purity Yttrium Oxide Powder Mergers & Acquisitions Activity

Table 29. United States VS China High Purity Yttrium Oxide Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Purity Yttrium Oxide Powder Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China High Purity Yttrium Oxide Powder Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Purity Yttrium Oxide Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Purity Yttrium Oxide Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Purity Yttrium Oxide Powder Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share (2021-2026)

Table 37. China Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Purity Yttrium Oxide Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Purity Yttrium Oxide Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Purity Yttrium Oxide Powder Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share (2021-2026)

Table 42. Rest of World Based High Purity Yttrium Oxide Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share (2021-2026)

Table 47. World High Purity Yttrium Oxide Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Purity Yttrium Oxide Powder Production by Type (2021-2026) & (Tons)

Table 49. World High Purity Yttrium Oxide Powder Production by Type (2027-2032) & (Tons)

Table 50. World High Purity Yttrium Oxide Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Purity Yttrium Oxide Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Purity Yttrium Oxide Powder Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World High Purity Yttrium Oxide Powder Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World High Purity Yttrium Oxide Powder Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 55. World High Purity Yttrium Oxide Powder Production by Physical Form (2021-2026) & (Tons)

Table 56. World High Purity Yttrium Oxide Powder Production by Physical Form (2027-2032) & (Tons)

Table 57. World High Purity Yttrium Oxide Powder Production Value by Physical Form (2021-2026) & (USD Million)

Table 58. World High Purity Yttrium Oxide Powder Production Value by Physical Form (2027-2032) & (USD Million)

Table 59. World High Purity Yttrium Oxide Powder Average Price by Physical Form (2021-2026) & (US\$/Ton)

Table 60. World High Purity Yttrium Oxide Powder Average Price by Physical Form

(2027-2032) & (US\$/Ton)

Table 61. World High Purity Yttrium Oxide Powder Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 62. World High Purity Yttrium Oxide Powder Production by Function (2021-2026) & (Tons)

Table 63. World High Purity Yttrium Oxide Powder Production by Function (2027-2032) & (Tons)

Table 64. World High Purity Yttrium Oxide Powder Production Value by Function (2021-2026) & (USD Million)

Table 65. World High Purity Yttrium Oxide Powder Production Value by Function (2027-2032) & (USD Million)

Table 66. World High Purity Yttrium Oxide Powder Average Price by Function (2021-2026) & (US\$/Ton)

Table 67. World High Purity Yttrium Oxide Powder Average Price by Function (2027-2032) & (US\$/Ton)

Table 68. World High Purity Yttrium Oxide Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Purity Yttrium Oxide Powder Production by Application (2021-2026) & (Tons)

Table 70. World High Purity Yttrium Oxide Powder Production by Application (2027-2032) & (Tons)

Table 71. World High Purity Yttrium Oxide Powder Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Purity Yttrium Oxide Powder Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Purity Yttrium Oxide Powder Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World High Purity Yttrium Oxide Powder Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Solvay S.A Basic Information, Manufacturing Base and Competitors

Table 76. Solvay S.A Major Business

Table 77. Solvay S.A High Purity Yttrium Oxide Powder Product and Services

Table 78. Solvay S.A High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Solvay S.A Recent Developments/Updates

Table 80. Solvay S.A Competitive Strengths & Weaknesses

Table 81. Stanford Materials Corporation Basic Information, Manufacturing Base and Competitors

- Table 82. Stanford Materials Corporation Major Business
- Table 83. Stanford Materials Corporation High Purity Yttrium Oxide Powder Product and Services
- Table 84. Stanford Materials Corporation High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Stanford Materials Corporation Recent Developments/Updates
- Table 86. Stanford Materials Corporation Competitive Strengths & Weaknesses
- Table 87. Ossila Basic Information, Manufacturing Base and Competitors
- Table 88. Ossila Major Business
- Table 89. Ossila High Purity Yttrium Oxide Powder Product and Services
- Table 90. Ossila High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Ossila Recent Developments/Updates
- Table 92. Ossila Competitive Strengths & Weaknesses
- Table 93. Treibacher Industrie AG Basic Information, Manufacturing Base and Competitors
- Table 94. Treibacher Industrie AG Major Business
- Table 95. Treibacher Industrie AG High Purity Yttrium Oxide Powder Product and Services
- Table 96. Treibacher Industrie AG High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Treibacher Industrie AG Recent Developments/Updates
- Table 98. Treibacher Industrie AG Competitive Strengths & Weaknesses
- Table 99. Nano Research Elements Basic Information, Manufacturing Base and Competitors
- Table 100. Nano Research Elements Major Business
- Table 101. Nano Research Elements High Purity Yttrium Oxide Powder Product and Services
- Table 102. Nano Research Elements High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Nano Research Elements Recent Developments/Updates
- Table 104. Nano Research Elements Competitive Strengths & Weaknesses
- Table 105. China Rare Earth Group Basic Information, Manufacturing Base and Competitors
- Table 106. China Rare Earth Group Major Business
- Table 107. China Rare Earth Group High Purity Yttrium Oxide Powder Product and

Services

Table 108. China Rare Earth Group High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. China Rare Earth Group Recent Developments/Updates

Table 110. China Rare Earth Group Competitive Strengths & Weaknesses

Table 111. Shenghe Resources Holding Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 112. Shenghe Resources Holding Co., Ltd Major Business

Table 113. Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Product and Services

Table 114. Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Shenghe Resources Holding Co., Ltd Recent Developments/Updates

Table 116. Shenghe Resources Holding Co., Ltd Competitive Strengths & Weaknesses

Table 117. China Northern Rare Earth (Group) High-Tech Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 118. China Northern Rare Earth (Group) High-Tech Co., Ltd Major Business

Table 119. China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Product and Services

Table 120. China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. China Northern Rare Earth (Group) High-Tech Co., Ltd Recent Developments/Updates

Table 122. China Northern Rare Earth (Group) High-Tech Co., Ltd Competitive Strengths & Weaknesses

Table 123. Tinsan Materials Basic Information, Manufacturing Base and Competitors

Table 124. Tinsan Materials Major Business

Table 125. Tinsan Materials High Purity Yttrium Oxide Powder Product and Services

Table 126. Tinsan Materials High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Tinsan Materials Recent Developments/Updates

Table 128. Tinsan Materials Competitive Strengths & Weaknesses

Table 129. NewMet Basic Information, Manufacturing Base and Competitors

Table 130. NewMet Major Business

Table 131. NewMet High Purity Yttrium Oxide Powder Product and Services

Table 132. NewMet High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. NewMet Recent Developments/Updates

Table 134. NewMet Competitive Strengths & Weaknesses

Table 135. Menssing Chemiehandel & Consultants GmbH Basic Information, Manufacturing Base and Competitors

Table 136. Menssing Chemiehandel & Consultants GmbH Major Business

Table 137. Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Product and Services

Table 138. Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Menssing Chemiehandel & Consultants GmbH Recent Developments/Updates

Table 140. Menssing Chemiehandel & Consultants GmbH Competitive Strengths & Weaknesses

Table 141. Particular Materials Basic Information, Manufacturing Base and Competitors

Table 142. Particular Materials Major Business

Table 143. Particular Materials High Purity Yttrium Oxide Powder Product and Services

Table 144. Particular Materials High Purity Yttrium Oxide Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Particular Materials Recent Developments/Updates

Table 146. Particular Materials Competitive Strengths & Weaknesses

Table 147. Global Key Players of High Purity Yttrium Oxide Powder Upstream (Raw Materials)

Table 148. Global High Purity Yttrium Oxide Powder Typical Customers

Table 149. High Purity Yttrium Oxide Powder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Purity Yttrium Oxide Powder Picture

Figure 2. World High Purity Yttrium Oxide Powder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Purity Yttrium Oxide Powder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 5. World High Purity Yttrium Oxide Powder Average Price (2021-2032) & (US\$/Ton)

Figure 6. World High Purity Yttrium Oxide Powder Production Value Market Share by Region (2021-2032)

Figure 7. World High Purity Yttrium Oxide Powder Production Market Share by Region (2021-2032)

Figure 8. North America High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 9. Europe High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 10. China High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 11. Japan High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 12. India High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 13. Southeast Asia High Purity Yttrium Oxide Powder Production (2021-2032) & (Tons)

Figure 14. High Purity Yttrium Oxide Powder Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 17. World High Purity Yttrium Oxide Powder Consumption Market Share by Region (2021-2032)

Figure 18. United States High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 19. China High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 20. Europe High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 21. Japan High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 22. South Korea High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 23. ASEAN High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 24. India High Purity Yttrium Oxide Powder Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of High Purity Yttrium Oxide Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for High Purity Yttrium Oxide Powder Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for High Purity Yttrium Oxide Powder Markets in 2025

Figure 28. United States VS China: High Purity Yttrium Oxide Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High Purity Yttrium Oxide Powder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: High Purity Yttrium Oxide Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share 2025

Figure 32. China Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share 2025

Figure 33. Rest of World Based Manufacturers High Purity Yttrium Oxide Powder Production Market Share 2025

Figure 34. World High Purity Yttrium Oxide Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World High Purity Yttrium Oxide Powder Production Value Market Share by Type in 2025

Figure 36. Micron-sized Powder

Figure 37. Nano-sized Powder

Figure 38. World High Purity Yttrium Oxide Powder Production Market Share by Type (2021-2032)

Figure 39. World High Purity Yttrium Oxide Powder Production Value Market Share by Type (2021-2032)

Figure 40. World High Purity Yttrium Oxide Powder Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World High Purity Yttrium Oxide Powder Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 42. World High Purity Yttrium Oxide Powder Production Value Market Share by Physical Form in 2025

Figure 43. Polyhedral Powder

Figure 44. Spherical Powder

Figure 45. World High Purity Yttrium Oxide Powder Production Market Share by Physical Form (2021-2032)

Figure 46. World High Purity Yttrium Oxide Powder Production Value Market Share by Physical Form (2021-2032)

Figure 47. World High Purity Yttrium Oxide Powder Average Price by Physical Form (2021-2032) & (US\$/Ton)

Figure 48. World High Purity Yttrium Oxide Powder Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 49. World High Purity Yttrium Oxide Powder Production Value Market Share by Function in 2025

Figure 50. Phosphor Grade

Figure 51. Ceramic Grade

Figure 52. Crystal Grade

Figure 53. Spray Grade

Figure 54. World High Purity Yttrium Oxide Powder Production Market Share by Function (2021-2032)

Figure 55. World High Purity Yttrium Oxide Powder Production Value Market Share by Function (2021-2032)

Figure 56. World High Purity Yttrium Oxide Powder Average Price by Function (2021-2032) & (US\$/Ton)

Figure 57. World High Purity Yttrium Oxide Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World High Purity Yttrium Oxide Powder Production Value Market Share by Application in 2025

Figure 59. Semiconductors

Figure 60. Aerospace

Figure 61. Optoelectronics

Figure 62. Other

Figure 63. World High Purity Yttrium Oxide Powder Production Market Share by Application (2021-2032)

Figure 64. World High Purity Yttrium Oxide Powder Production Value Market Share by Application (2021-2032)

Figure 65. World High Purity Yttrium Oxide Powder Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. High Purity Yttrium Oxide Powder Industry Chain

Figure 67. High Purity Yttrium Oxide Powder Procurement Model

Figure 68. High Purity Yttrium Oxide Powder Sales Model

Figure 69. High Purity Yttrium Oxide Powder Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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