

# Global High Purity Yttrium Oxide Powder Market Growth 2026-2032

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## Abstracts

The global High Purity Yttrium Oxide Powder market size is predicted to grow from US\$ 313 million in 2025 to US\$ 621 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Purity Yttrium Oxide Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Purity Yttrium Oxide Powder and breaks down the forecast by Type, 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 High Purity Yttrium Oxide Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of High Purity Yttrium Oxide Powder market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Micron-sized Powder

Nano-sized Powder

Segmentation by Physical Form:

Polyhedral Powder

Spherical Powder

Segmentation by Function:

Phosphor Grade

Ceramic Grade

Crystal Grade

Spray Grade

Segmentation by Application:

Semiconductors

Aerospace

Optoelectronics

Other

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.

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 Addressed in this Report

What is the 10-year outlook for the global High Purity Yttrium Oxide Powder market?

What factors are driving High Purity Yttrium Oxide Powder market growth, globally and by region?

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

How do High Purity Yttrium Oxide Powder market opportunities vary by end market size?

How does High Purity Yttrium Oxide Powder break out by Type, 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 High Purity Yttrium Oxide Powder Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for High Purity Yttrium Oxide Powder by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for High Purity Yttrium Oxide Powder by Country/Region, 2021, 2025 & 2032
- 2.2 High Purity Yttrium Oxide Powder Segment by Type
  - 2.2.1 Micron-sized Powder
  - 2.2.2 Nano-sized Powder
  - 2.2.3 High Purity Yttrium Oxide Powder Sales by Type
    - 2.2.3.1 Global High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)
    - 2.2.3.2 Global High Purity Yttrium Oxide Powder Revenue and Market Share by Type (2021-2026)
    - 2.2.3.3 Global High Purity Yttrium Oxide Powder Sale Price by Type (2021-2026)
- 2.3 High Purity Yttrium Oxide Powder Segment by Physical Form
  - 2.3.1 Polyhedral Powder
  - 2.3.2 Spherical Powder
  - 2.3.3 High Purity Yttrium Oxide Powder Sales by Physical Form
    - 2.3.3.1 Global High Purity Yttrium Oxide Powder Sales Market Share by Physical Form (2021-2026)
    - 2.3.3.2 Global High Purity Yttrium Oxide Powder Revenue and Market Share by Physical Form (2021-2026)
    - 2.3.3.3 Global High Purity Yttrium Oxide Powder Sale Price by Physical Form

(2021-2026)

#### 2.4 High Purity Yttrium Oxide Powder Segment by Function

2.4.1 Phosphor Grade

2.4.2 Ceramic Grade

2.4.3 Crystal Grade

2.4.4 Spray Grade

2.4.5 High Purity Yttrium Oxide Powder Sales by Function

2.4.5.1 Global High Purity Yttrium Oxide Powder Sales Market Share by Function

(2021-2026)

2.4.5.2 Global High Purity Yttrium Oxide Powder Revenue and Market Share by Function (2021-2026)

2.4.5.3 Global High Purity Yttrium Oxide Powder Sale Price by Function (2021-2026)

#### 2.5 High Purity Yttrium Oxide Powder Segment by Application

2.5.1 Semiconductors

2.5.2 Aerospace

2.5.3 Optoelectronics

2.5.4 Other

2.5.5 High Purity Yttrium Oxide Powder Sales by Application

2.5.5.1 Global High Purity Yttrium Oxide Powder Sale Market Share by Application

(2021-2026)

2.5.5.2 Global High Purity Yttrium Oxide Powder Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global High Purity Yttrium Oxide Powder Sale Price by Application

(2021-2026)

### **3 GLOBAL BY COMPANY**

#### 3.1 Global High Purity Yttrium Oxide Powder Breakdown Data by Company

3.1.1 Global High Purity Yttrium Oxide Powder Annual Sales by Company (2021-2026)

3.1.2 Global High Purity Yttrium Oxide Powder Sales Market Share by Company

(2021-2026)

#### 3.2 Global High Purity Yttrium Oxide Powder Annual Revenue by Company

(2021-2026)

3.2.1 Global High Purity Yttrium Oxide Powder Revenue by Company (2021-2026)

3.2.2 Global High Purity Yttrium Oxide Powder Revenue Market Share by Company

(2021-2026)

#### 3.3 Global High Purity Yttrium Oxide Powder Sale Price by Company

#### 3.4 Key Manufacturers High Purity Yttrium Oxide Powder Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High Purity Yttrium Oxide Powder Product Location  
Distribution

3.4.2 Players High Purity Yttrium Oxide Powder 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 HIGH PURITY YTTRIUM OXIDE POWDER BY GEOGRAPHIC REGION**

4.1 World Historic High Purity Yttrium Oxide Powder Market Size by Geographic Region (2021-2026)

4.1.1 Global High Purity Yttrium Oxide Powder Annual Sales by Geographic Region (2021-2026)

4.1.2 Global High Purity Yttrium Oxide Powder Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic High Purity Yttrium Oxide Powder Market Size by Country/Region (2021-2026)

4.2.1 Global High Purity Yttrium Oxide Powder Annual Sales by Country/Region (2021-2026)

4.2.2 Global High Purity Yttrium Oxide Powder Annual Revenue by Country/Region (2021-2026)

4.3 Americas High Purity Yttrium Oxide Powder Sales Growth

4.4 APAC High Purity Yttrium Oxide Powder Sales Growth

4.5 Europe High Purity Yttrium Oxide Powder Sales Growth

4.6 Middle East & Africa High Purity Yttrium Oxide Powder Sales Growth

## **5 AMERICAS**

5.1 Americas High Purity Yttrium Oxide Powder Sales by Country

5.1.1 Americas High Purity Yttrium Oxide Powder Sales by Country (2021-2026)

5.1.2 Americas High Purity Yttrium Oxide Powder Revenue by Country (2021-2026)

5.2 Americas High Purity Yttrium Oxide Powder Sales by Type (2021-2026)

5.3 Americas High Purity Yttrium Oxide Powder Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

## 5.7 Brazil

## 6 APAC

### 6.1 APAC High Purity Yttrium Oxide Powder Sales by Region

6.1.1 APAC High Purity Yttrium Oxide Powder Sales by Region (2021-2026)

6.1.2 APAC High Purity Yttrium Oxide Powder Revenue by Region (2021-2026)

### 6.2 APAC High Purity Yttrium Oxide Powder Sales by Type (2021-2026)

### 6.3 APAC High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder by Country

7.1.1 Europe High Purity Yttrium Oxide Powder Sales by Country (2021-2026)

7.1.2 Europe High Purity Yttrium Oxide Powder Revenue by Country (2021-2026)

### 7.2 Europe High Purity Yttrium Oxide Powder Sales by Type (2021-2026)

### 7.3 Europe High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder by Country

8.1.1 Middle East & Africa High Purity Yttrium Oxide Powder Sales by Country (2021-2026)

8.1.2 Middle East & Africa High Purity Yttrium Oxide Powder Revenue by Country (2021-2026)

### 8.2 Middle East & Africa High Purity Yttrium Oxide Powder Sales by Type (2021-2026)

### 8.3 Middle East & Africa High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder

10.3 Manufacturing Process Analysis of High Purity Yttrium Oxide Powder

10.4 Industry Chain Structure of High Purity Yttrium Oxide Powder

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High Purity Yttrium Oxide Powder Distributors

11.3 High Purity Yttrium Oxide Powder Customer

## **12 WORLD FORECAST REVIEW FOR HIGH PURITY YTTRIUM OXIDE POWDER BY GEOGRAPHIC REGION**

12.1 Global High Purity Yttrium Oxide Powder Market Size Forecast by Region

12.1.1 Global High Purity Yttrium Oxide Powder Forecast by Region (2027-2032)

12.1.2 Global High Purity Yttrium Oxide Powder 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 High Purity Yttrium Oxide Powder Forecast by Type (2027-2032)

12.7 Global High Purity Yttrium Oxide Powder Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Solvay S.A

13.1.1 Solvay S.A Company Information

13.1.2 Solvay S.A High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.1.3 Solvay S.A High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Solvay S.A Main Business Overview

13.1.5 Solvay S.A Latest Developments

### 13.2 Stanford Materials Corporation

13.2.1 Stanford Materials Corporation Company Information

13.2.2 Stanford Materials Corporation High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.2.3 Stanford Materials Corporation High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Stanford Materials Corporation Main Business Overview

13.2.5 Stanford Materials Corporation Latest Developments

### 13.3 Ossila

13.3.1 Ossila Company Information

13.3.2 Ossila High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.3.3 Ossila High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Ossila Main Business Overview

13.3.5 Ossila Latest Developments

### 13.4 Treibacher Industrie AG

13.4.1 Treibacher Industrie AG Company Information

13.4.2 Treibacher Industrie AG High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.4.3 Treibacher Industrie AG High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Treibacher Industrie AG Main Business Overview

13.4.5 Treibacher Industrie AG Latest Developments

### 13.5 Nano Research Elements

13.5.1 Nano Research Elements Company Information

13.5.2 Nano Research Elements High Purity Yttrium Oxide Powder Product Portfolios

## and Specifications

13.5.3 Nano Research Elements High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nano Research Elements Main Business Overview

13.5.5 Nano Research Elements Latest Developments

## 13.6 China Rare Earth Group

13.6.1 China Rare Earth Group Company Information

13.6.2 China Rare Earth Group High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.6.3 China Rare Earth Group High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 China Rare Earth Group Main Business Overview

13.6.5 China Rare Earth Group Latest Developments

## 13.7 Shenghe Resources Holding Co., Ltd

13.7.1 Shenghe Resources Holding Co., Ltd Company Information

13.7.2 Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.7.3 Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shenghe Resources Holding Co., Ltd Main Business Overview

13.7.5 Shenghe Resources Holding Co., Ltd Latest Developments

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

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

13.8.2 China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.8.3 China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 China Northern Rare Earth (Group) High-Tech Co., Ltd Main Business Overview

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

## 13.9 Tinsan Materials

13.9.1 Tinsan Materials Company Information

13.9.2 Tinsan Materials High Purity Yttrium Oxide Powder Product Portfolios and Specifications

13.9.3 Tinsan Materials High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Tinsan Materials Main Business Overview

13.9.5 Tinsan Materials Latest Developments

## 13.10 NewMet

- 13.10.1 NewMet Company Information
- 13.10.2 NewMet High Purity Yttrium Oxide Powder Product Portfolios and Specifications
- 13.10.3 NewMet High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.10.4 NewMet Main Business Overview
- 13.10.5 NewMet Latest Developments
- 13.11 Menssing Chemiehandel & Consultants GmbH
- 13.11.1 Menssing Chemiehandel & Consultants GmbH Company Information
- 13.11.2 Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Product Portfolios and Specifications
- 13.11.3 Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.11.4 Menssing Chemiehandel & Consultants GmbH Main Business Overview
- 13.11.5 Menssing Chemiehandel & Consultants GmbH Latest Developments
- 13.12 Particular Materials
- 13.12.1 Particular Materials Company Information
- 13.12.2 Particular Materials High Purity Yttrium Oxide Powder Product Portfolios and Specifications
- 13.12.3 Particular Materials High Purity Yttrium Oxide Powder Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.12.4 Particular Materials Main Business Overview
- 13.12.5 Particular Materials Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. High Purity Yttrium Oxide Powder Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. High Purity Yttrium Oxide Powder Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Micron-sized Powder
- Table 4. Major Players of Nano-sized Powder
- Table 5. Global High Purity Yttrium Oxide Powder Sales by Type (2021-2026) & (Tons)
- Table 6. Global High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)
- Table 7. Global High Purity Yttrium Oxide Powder Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global High Purity Yttrium Oxide Powder Revenue Market Share by Type (2021-2026)
- Table 9. Global High Purity Yttrium Oxide Powder Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 10. Major Players of Polyhedral Powder
- Table 11. Major Players of Spherical Powder
- Table 12. Global High Purity Yttrium Oxide Powder Sales by Physical Form (2021-2026) & (Tons)
- Table 13. Global High Purity Yttrium Oxide Powder Sales Market Share by Physical Form (2021-2026)
- Table 14. Global High Purity Yttrium Oxide Powder Revenue by Physical Form (2021-2026) & (\$ million)
- Table 15. Global High Purity Yttrium Oxide Powder Revenue Market Share by Physical Form (2021-2026)
- Table 16. Global High Purity Yttrium Oxide Powder Sale Price by Physical Form (2021-2026) & (US\$/Ton)
- Table 17. Major Players of Phosphor Grade
- Table 18. Major Players of Ceramic Grade
- Table 19. Major Players of Crystal Grade
- Table 20. Major Players of Spray Grade
- Table 21. Global High Purity Yttrium Oxide Powder Sales by Function (2021-2026) & (Tons)
- Table 22. Global High Purity Yttrium Oxide Powder Sales Market Share by Function (2021-2026)

Table 23. Global High Purity Yttrium Oxide Powder Revenue by Function (2021-2026) & (\$ million)

Table 24. Global High Purity Yttrium Oxide Powder Revenue Market Share by Function (2021-2026)

Table 25. Global High Purity Yttrium Oxide Powder Sale Price by Function (2021-2026) & (US\$/Ton)

Table 26. Global High Purity Yttrium Oxide Powder Sale by Application (2021-2026) & (Tons)

Table 27. Global High Purity Yttrium Oxide Powder Sale Market Share by Application (2021-2026)

Table 28. Global High Purity Yttrium Oxide Powder Revenue by Application (2021-2026) & (\$ million)

Table 29. Global High Purity Yttrium Oxide Powder Revenue Market Share by Application (2021-2026)

Table 30. Global High Purity Yttrium Oxide Powder Sale Price by Application (2021-2026) & (US\$/Ton)

Table 31. Global High Purity Yttrium Oxide Powder Sales by Company (2021-2026) & (Tons)

Table 32. Global High Purity Yttrium Oxide Powder Sales Market Share by Company (2021-2026)

Table 33. Global High Purity Yttrium Oxide Powder Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global High Purity Yttrium Oxide Powder Revenue Market Share by Company (2021-2026)

Table 35. Global High Purity Yttrium Oxide Powder Sale Price by Company (2021-2026) & (US\$/Ton)

Table 36. Key Manufacturers High Purity Yttrium Oxide Powder Producing Area Distribution and Sales Area

Table 37. Players High Purity Yttrium Oxide Powder Products Offered

Table 38. High Purity Yttrium Oxide Powder Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global High Purity Yttrium Oxide Powder Sales by Geographic Region (2021-2026) & (Tons)

Table 42. Global High Purity Yttrium Oxide Powder Sales Market Share Geographic Region (2021-2026)

Table 43. Global High Purity Yttrium Oxide Powder Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global High Purity Yttrium Oxide Powder Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global High Purity Yttrium Oxide Powder Sales by Country/Region (2021-2026) & (Tons)

Table 46. Global High Purity Yttrium Oxide Powder Sales Market Share by Country/Region (2021-2026)

Table 47. Global High Purity Yttrium Oxide Powder Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global High Purity Yttrium Oxide Powder Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas High Purity Yttrium Oxide Powder Sales by Country (2021-2026) & (Tons)

Table 50. Americas High Purity Yttrium Oxide Powder Sales Market Share by Country (2021-2026)

Table 51. Americas High Purity Yttrium Oxide Powder Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas High Purity Yttrium Oxide Powder Sales by Type (2021-2026) & (Tons)

Table 53. Americas High Purity Yttrium Oxide Powder Sales by Application (2021-2026) & (Tons)

Table 54. APAC High Purity Yttrium Oxide Powder Sales by Region (2021-2026) & (Tons)

Table 55. APAC High Purity Yttrium Oxide Powder Sales Market Share by Region (2021-2026)

Table 56. APAC High Purity Yttrium Oxide Powder Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC High Purity Yttrium Oxide Powder Sales by Type (2021-2026) & (Tons)

Table 58. APAC High Purity Yttrium Oxide Powder Sales by Application (2021-2026) & (Tons)

Table 59. Europe High Purity Yttrium Oxide Powder Sales by Country (2021-2026) & (Tons)

Table 60. Europe High Purity Yttrium Oxide Powder Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe High Purity Yttrium Oxide Powder Sales by Type (2021-2026) & (Tons)

Table 62. Europe High Purity Yttrium Oxide Powder Sales by Application (2021-2026) & (Tons)

Table 63. Middle East & Africa High Purity Yttrium Oxide Powder Sales by Country (2021-2026) & (Tons)

Table 64. Middle East & Africa High Purity Yttrium Oxide Powder Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa High Purity Yttrium Oxide Powder Sales by Type (2021-2026) & (Tons)

Table 66. Middle East & Africa High Purity Yttrium Oxide Powder Sales by Application (2021-2026) & (Tons)

Table 67. Key Market Drivers & Growth Opportunities of High Purity Yttrium Oxide Powder

Table 68. Key Market Challenges & Risks of High Purity Yttrium Oxide Powder

Table 69. Key Industry Trends of High Purity Yttrium Oxide Powder

Table 70. High Purity Yttrium Oxide Powder Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. High Purity Yttrium Oxide Powder Distributors List

Table 73. High Purity Yttrium Oxide Powder Customer List

Table 74. Global High Purity Yttrium Oxide Powder Sales Forecast by Region (2027-2032) & (Tons)

Table 75. Global High Purity Yttrium Oxide Powder Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas High Purity Yttrium Oxide Powder Sales Forecast by Country (2027-2032) & (Tons)

Table 77. Americas High Purity Yttrium Oxide Powder Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC High Purity Yttrium Oxide Powder Sales Forecast by Region (2027-2032) & (Tons)

Table 79. APAC High Purity Yttrium Oxide Powder Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe High Purity Yttrium Oxide Powder Sales Forecast by Country (2027-2032) & (Tons)

Table 81. Europe High Purity Yttrium Oxide Powder Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa High Purity Yttrium Oxide Powder Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Middle East & Africa High Purity Yttrium Oxide Powder Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global High Purity Yttrium Oxide Powder Sales Forecast by Type (2027-2032) & (Tons)

Table 85. Global High Purity Yttrium Oxide Powder Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 86. Global High Purity Yttrium Oxide Powder Sales Forecast by Application

(2027-2032) & (Tons)

Table 87. Global High Purity Yttrium Oxide Powder Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Solvay S.A Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 89. Solvay S.A High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 90. Solvay S.A High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 91. Solvay S.A Main Business

Table 92. Solvay S.A Latest Developments

Table 93. Stanford Materials Corporation Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 94. Stanford Materials Corporation High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 95. Stanford Materials Corporation High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. Stanford Materials Corporation Main Business

Table 97. Stanford Materials Corporation Latest Developments

Table 98. Ossila Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 99. Ossila High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 100. Ossila High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. Ossila Main Business

Table 102. Ossila Latest Developments

Table 103. Treibacher Industrie AG Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 104. Treibacher Industrie AG High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 105. Treibacher Industrie AG High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. Treibacher Industrie AG Main Business

Table 107. Treibacher Industrie AG Latest Developments

Table 108. Nano Research Elements Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 109. Nano Research Elements High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 110. Nano Research Elements High Purity Yttrium Oxide Powder Sales (Tons),

Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. Nano Research Elements Main Business

Table 112. Nano Research Elements Latest Developments

Table 113. China Rare Earth Group Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 114. China Rare Earth Group High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 115. China Rare Earth Group High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. China Rare Earth Group Main Business

Table 117. China Rare Earth Group Latest Developments

Table 118. Shenghe Resources Holding Co., Ltd Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 119. Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 120. Shenghe Resources Holding Co., Ltd High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. Shenghe Resources Holding Co., Ltd Main Business

Table 122. Shenghe Resources Holding Co., Ltd Latest Developments

Table 123. China Northern Rare Earth (Group) High-Tech Co., Ltd Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 124. China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 125. China Northern Rare Earth (Group) High-Tech Co., Ltd High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 126. China Northern Rare Earth (Group) High-Tech Co., Ltd Main Business

Table 127. China Northern Rare Earth (Group) High-Tech Co., Ltd Latest Developments

Table 128. Tinsan Materials Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 129. Tinsan Materials High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 130. Tinsan Materials High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 131. Tinsan Materials Main Business

Table 132. Tinsan Materials Latest Developments

Table 133. NewMet Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 134. NewMet High Purity Yttrium Oxide Powder Product Portfolios and

## Specifications

Table 135. NewMet High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 136. NewMet Main Business

Table 137. NewMet Latest Developments

Table 138. Menssing Chemiehandel & Consultants GmbH Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 139. Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 140. Menssing Chemiehandel & Consultants GmbH High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 141. Menssing Chemiehandel & Consultants GmbH Main Business

Table 142. Menssing Chemiehandel & Consultants GmbH Latest Developments

Table 143. Particular Materials Basic Information, High Purity Yttrium Oxide Powder Manufacturing Base, Sales Area and Its Competitors

Table 144. Particular Materials High Purity Yttrium Oxide Powder Product Portfolios and Specifications

Table 145. Particular Materials High Purity Yttrium Oxide Powder Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 146. Particular Materials Main Business

Table 147. Particular Materials Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of High Purity Yttrium Oxide Powder
- Figure 2. High Purity Yttrium Oxide Powder Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High Purity Yttrium Oxide Powder Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global High Purity Yttrium Oxide Powder Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High Purity Yttrium Oxide Powder Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High Purity Yttrium Oxide Powder Sales Market Share by Country/Region (2025)
- Figure 10. High Purity Yttrium Oxide Powder Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Micron-sized Powder
- Figure 12. Product Picture of Nano-sized Powder
- Figure 13. Global High Purity Yttrium Oxide Powder Sales Market Share by Type in 2026
- Figure 14. Global High Purity Yttrium Oxide Powder Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Polyhedral Powder
- Figure 16. Product Picture of Spherical Powder
- Figure 17. Global High Purity Yttrium Oxide Powder Sales Market Share by Physical Form in 2026
- Figure 18. Global High Purity Yttrium Oxide Powder Revenue Market Share by Physical Form (2021-2026)
- Figure 19. Product Picture of Phosphor Grade
- Figure 20. Product Picture of Ceramic Grade
- Figure 21. Product Picture of Crystal Grade
- Figure 22. Product Picture of Spray Grade
- Figure 23. Global High Purity Yttrium Oxide Powder Sales Market Share by Function in 2026
- Figure 24. Global High Purity Yttrium Oxide Powder Revenue Market Share by Function (2021-2026)

- Figure 25. High Purity Yttrium Oxide Powder Consumed in Semiconductors
- Figure 26. Global High Purity Yttrium Oxide Powder Market: Semiconductors (2021-2026) & (Tons)
- Figure 27. High Purity Yttrium Oxide Powder Consumed in Aerospace
- Figure 28. Global High Purity Yttrium Oxide Powder Market: Aerospace (2021-2026) & (Tons)
- Figure 29. High Purity Yttrium Oxide Powder Consumed in Optoelectronics
- Figure 30. Global High Purity Yttrium Oxide Powder Market: Optoelectronics (2021-2026) & (Tons)
- Figure 31. High Purity Yttrium Oxide Powder Consumed in Other
- Figure 32. Global High Purity Yttrium Oxide Powder Market: Other (2021-2026) & (Tons)
- Figure 33. Global High Purity Yttrium Oxide Powder Sale Market Share by Application (2025)
- Figure 34. Global High Purity Yttrium Oxide Powder Revenue Market Share by Application in 2025
- Figure 35. High Purity Yttrium Oxide Powder Sales by Company in 2025 (Tons)
- Figure 36. Global High Purity Yttrium Oxide Powder Sales Market Share by Company in 2025
- Figure 37. High Purity Yttrium Oxide Powder Revenue by Company in 2025 (\$ millions)
- Figure 38. Global High Purity Yttrium Oxide Powder Revenue Market Share by Company in 2025
- Figure 39. Global High Purity Yttrium Oxide Powder Sales Market Share by Geographic Region (2021-2026)
- Figure 40. Global High Purity Yttrium Oxide Powder Revenue Market Share by Geographic Region in 2025
- Figure 41. Americas High Purity Yttrium Oxide Powder Sales 2021-2026 (Tons)
- Figure 42. Americas High Purity Yttrium Oxide Powder Revenue 2021-2026 (\$ millions)
- Figure 43. APAC High Purity Yttrium Oxide Powder Sales 2021-2026 (Tons)
- Figure 44. APAC High Purity Yttrium Oxide Powder Revenue 2021-2026 (\$ millions)
- Figure 45. Europe High Purity Yttrium Oxide Powder Sales 2021-2026 (Tons)
- Figure 46. Europe High Purity Yttrium Oxide Powder Revenue 2021-2026 (\$ millions)
- Figure 47. Middle East & Africa High Purity Yttrium Oxide Powder Sales 2021-2026 (Tons)
- Figure 48. Middle East & Africa High Purity Yttrium Oxide Powder Revenue 2021-2026 (\$ millions)
- Figure 49. Americas High Purity Yttrium Oxide Powder Sales Market Share by Country in 2025
- Figure 50. Americas High Purity Yttrium Oxide Powder Revenue Market Share by

Country (2021-2026)

Figure 51. Americas High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)

Figure 52. Americas High Purity Yttrium Oxide Powder Sales Market Share by Application (2021-2026)

Figure 53. United States High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC High Purity Yttrium Oxide Powder Sales Market Share by Region in 2025

Figure 58. APAC High Purity Yttrium Oxide Powder Revenue Market Share by Region (2021-2026)

Figure 59. APAC High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)

Figure 60. APAC High Purity Yttrium Oxide Powder Sales Market Share by Application (2021-2026)

Figure 61. China High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 65. India High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe High Purity Yttrium Oxide Powder Sales Market Share by Country in 2025

Figure 69. Europe High Purity Yttrium Oxide Powder Revenue Market Share by Country (2021-2026)

Figure 70. Europe High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)

Figure 71. Europe High Purity Yttrium Oxide Powder Sales Market Share by Application (2021-2026)

Figure 72. Germany High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 73. France High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa High Purity Yttrium Oxide Powder Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa High Purity Yttrium Oxide Powder Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa High Purity Yttrium Oxide Powder Sales Market Share by Application (2021-2026)

Figure 80. Egypt High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries High Purity Yttrium Oxide Powder Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of High Purity Yttrium Oxide Powder in 2026

Figure 86. Manufacturing Process Analysis of High Purity Yttrium Oxide Powder

Figure 87. Industry Chain Structure of High Purity Yttrium Oxide Powder

Figure 88. Channels of Distribution

Figure 89. Global High Purity Yttrium Oxide Powder Sales Market Forecast by Region (2027-2032)

Figure 90. Global High Purity Yttrium Oxide Powder Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global High Purity Yttrium Oxide Powder Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global High Purity Yttrium Oxide Powder Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global High Purity Yttrium Oxide Powder Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global High Purity Yttrium Oxide Powder Revenue Market Share Forecast by Application (2027-2032)

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