

Global Orthophosphate Glass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Orthophosphate Glass market size is expected to reach \$ 1350 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Orthophosphate Glass is a type of phosphate-based glass primarily composed of isolated orthophosphate units (PO_4^{3-} tetrahedra) rather than long-chain or networked phosphate structures. It is typically formed using phosphorus pentoxide (P_2O_5) combined with modifiers such as alkali metals (Na, K), alkaline earth metals (Ca, Mg), or rare earth elements to tailor properties like thermal expansion, optical transmission, chemical durability, and bioactivity. Compared with silicate glasses, orthophosphate glass exhibits lower melting temperatures, higher ionic conductivity, and better solubility, making it suitable for applications in bioactive materials (e.g., bone repair), optical components, laser hosts, sealing glasses, and specialty coatings. The supply chain of orthophosphate glass begins upstream with raw material suppliers providing phosphorus compounds (e.g., phosphoric acid, P_2O_5), metal oxides/carbonates (such as Na_2CO_3 , CaO, Al_2O_3), and dopants (rare earth oxides for optical uses). Midstream, glass manufacturers and specialty materials companies perform batch formulation, melting, refining, and forming processes (casting, fiber drawing, or powder production) to produce bulk glass, fibers, or glass-ceramics. Downstream, the materials are integrated by end-use industries—including biomedical device manufacturers, optical and photonics companies, electronics packaging firms, and industrial coating providers—into final products such as bioactive implants, laser gain media, sealing components, and corrosion-resistant layers. In 2025, global Orthophosphate Glass output was about 620,000 tons with 800,000 tons of capacity, average prices of USD 1,200–3,500 per ton, and gross margins around 29%.

This report studies the global Orthophosphate Glass production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Orthophosphate Glass 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 Orthophosphate Glass that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Orthophosphate Glass total production and demand, 2021-2032, (Kilotons)

Global Orthophosphate Glass total production value, 2021-2032, (USD Million)

Global Orthophosphate Glass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Orthophosphate Glass consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Orthophosphate Glass domestic production, consumption, key domestic manufacturers and share

Global Orthophosphate Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Orthophosphate Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Orthophosphate Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Orthophosphate Glass 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 Corning (USA), Coherent (USA), Luxium Solutions (USA), Jenoptik (Germany), HOYA Corporation (Japan), OHARA Corporation (Japan), AGC Glass (Japan), SUMITA Optical Glass (Japan), Nippon Electric Glass (Japan), Chengdu Guangming (China), 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 Orthophosphate Glass market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Orthophosphate Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Orthophosphate Glass Market, Segmentation by Type:

Alkali Orthophosphate Glass

Alkaline Orthophosphate Glass

Global Orthophosphate Glass Market, Segmentation by Density:

3.5 g/cm³

Global Orthophosphate Glass Market, Segmentation by Application:

Biomedical

Optoelectronic

Energy Material

Others

Companies Profiled:

Corning (USA)

Coherent (USA)

Luxium Solutions (USA)

Jenoptik (Germany)

HOYA Corporation (Japan)

OHARA Corporation (Japan)

AGC Glass (Japan)

SUMITA Optical Glass (Japan)

Nippon Electric Glass (Japan)

Chengdu Guangming (China)

Key Questions Answered:

1. How big is the global Orthophosphate Glass market?
2. What is the demand of the global Orthophosphate Glass market?
3. What is the year over year growth of the global Orthophosphate Glass market?
4. What is the production and production value of the global Orthophosphate Glass market?
5. Who are the key producers in the global Orthophosphate Glass market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Orthophosphate Glass Production Value by Manufacturer (2021-2026)
- 3.2 World Orthophosphate Glass Production by Manufacturer (2021-2026)
- 3.3 World Orthophosphate Glass Average Price by Manufacturer (2021-2026)
- 3.4 Orthophosphate Glass Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Orthophosphate Glass Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Orthophosphate Glass in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Orthophosphate Glass in 2025
- 3.6 Orthophosphate Glass Market: Overall Company Footprint Analysis
 - 3.6.1 Orthophosphate Glass Market: Region Footprint
 - 3.6.2 Orthophosphate Glass Market: Company Product Type Footprint
 - 3.6.3 Orthophosphate Glass 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: Orthophosphate Glass Production Value Comparison
 - 4.1.1 United States VS China: Orthophosphate Glass Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Orthophosphate Glass Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Orthophosphate Glass Production Comparison
 - 4.2.1 United States VS China: Orthophosphate Glass Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Orthophosphate Glass Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Orthophosphate Glass Consumption Comparison
 - 4.3.1 United States VS China: Orthophosphate Glass Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Orthophosphate Glass Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Orthophosphate Glass Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Orthophosphate Glass Production Value (2021-2026)

4.4.3 United States Based Manufacturers Orthophosphate Glass Production (2021-2026)

4.5 China Based Orthophosphate Glass Manufacturers and Market Share

4.5.1 China Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Orthophosphate Glass Production Value (2021-2026)

4.5.3 China Based Manufacturers Orthophosphate Glass Production (2021-2026)

4.6 Rest of World Based Orthophosphate Glass Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Orthophosphate Glass Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Orthophosphate Glass Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Orthophosphate Glass Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Alkali Orthophosphate Glass

5.2.2 Alkaline Orthophosphate Glass

5.3 Market Segment by Type

5.3.1 World Orthophosphate Glass Production by Type (2021-2032)

5.3.2 World Orthophosphate Glass Production Value by Type (2021-2032)

5.3.3 World Orthophosphate Glass Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DENSITY

6.1 World Orthophosphate Glass Market Size Overview by Density: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Density

6.2.1 3.5 g/cm³

6.3 Market Segment by Density

6.3.1 World Orthophosphate Glass Production by Density (2021-2032)

6.3.2 World Orthophosphate Glass Production Value by Density (2021-2032)

6.3.3 World Orthophosphate Glass Average Price by Density (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Orthophosphate Glass Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Biomedical

7.2.2 Optoelectronic

7.2.3 Energy Material

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Orthophosphate Glass Production by Application (2021-2032)

7.3.2 World Orthophosphate Glass Production Value by Application (2021-2032)

7.3.3 World Orthophosphate Glass Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Corning (USA)

8.1.1 Corning (USA) Details

8.1.2 Corning (USA) Major Business

8.1.3 Corning (USA) Orthophosphate Glass Product and Services

8.1.4 Corning (USA) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Corning (USA) Recent Developments/Updates

8.1.6 Corning (USA) Competitive Strengths & Weaknesses

8.2 Coherent (USA)

8.2.1 Coherent (USA) Details

8.2.2 Coherent (USA) Major Business

8.2.3 Coherent (USA) Orthophosphate Glass Product and Services

8.2.4 Coherent (USA) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Coherent (USA) Recent Developments/Updates

8.2.6 Coherent (USA) Competitive Strengths & Weaknesses

8.3 Luxium Solutions (USA)

8.3.1 Luxium Solutions (USA) Details

- 8.3.2 Luxium Solutions (USA) Major Business
- 8.3.3 Luxium Solutions (USA) Orthophosphate Glass Product and Services
- 8.3.4 Luxium Solutions (USA) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.3.5 Luxium Solutions (USA) Recent Developments/Updates
- 8.3.6 Luxium Solutions (USA) Competitive Strengths & Weaknesses
- 8.4 Jenoptik (Germany)
 - 8.4.1 Jenoptik (Germany) Details
 - 8.4.2 Jenoptik (Germany) Major Business
 - 8.4.3 Jenoptik (Germany) Orthophosphate Glass Product and Services
 - 8.4.4 Jenoptik (Germany) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Jenoptik (Germany) Recent Developments/Updates
 - 8.4.6 Jenoptik (Germany) Competitive Strengths & Weaknesses
- 8.5 HOYA Corporation (Japan)
 - 8.5.1 HOYA Corporation (Japan) Details
 - 8.5.2 HOYA Corporation (Japan) Major Business
 - 8.5.3 HOYA Corporation (Japan) Orthophosphate Glass Product and Services
 - 8.5.4 HOYA Corporation (Japan) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 HOYA Corporation (Japan) Recent Developments/Updates
 - 8.5.6 HOYA Corporation (Japan) Competitive Strengths & Weaknesses
- 8.6 OHARA Corporation (Japan)
 - 8.6.1 OHARA Corporation (Japan) Details
 - 8.6.2 OHARA Corporation (Japan) Major Business
 - 8.6.3 OHARA Corporation (Japan) Orthophosphate Glass Product and Services
 - 8.6.4 OHARA Corporation (Japan) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 OHARA Corporation (Japan) Recent Developments/Updates
 - 8.6.6 OHARA Corporation (Japan) Competitive Strengths & Weaknesses
- 8.7 AGC Glass (Japan)
 - 8.7.1 AGC Glass (Japan) Details
 - 8.7.2 AGC Glass (Japan) Major Business
 - 8.7.3 AGC Glass (Japan) Orthophosphate Glass Product and Services
 - 8.7.4 AGC Glass (Japan) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 AGC Glass (Japan) Recent Developments/Updates
 - 8.7.6 AGC Glass (Japan) Competitive Strengths & Weaknesses
- 8.8 SUMITA Optical Glass (Japan)

- 8.8.1 SUMITA Optical Glass (Japan) Details
- 8.8.2 SUMITA Optical Glass (Japan) Major Business
- 8.8.3 SUMITA Optical Glass (Japan) Orthophosphate Glass Product and Services
- 8.8.4 SUMITA Optical Glass (Japan) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.8.5 SUMITA Optical Glass (Japan) Recent Developments/Updates
- 8.8.6 SUMITA Optical Glass (Japan) Competitive Strengths & Weaknesses
- 8.9 Nippon Electric Glass (Japan)
 - 8.9.1 Nippon Electric Glass (Japan) Details
 - 8.9.2 Nippon Electric Glass (Japan) Major Business
 - 8.9.3 Nippon Electric Glass (Japan) Orthophosphate Glass Product and Services
 - 8.9.4 Nippon Electric Glass (Japan) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Nippon Electric Glass (Japan) Recent Developments/Updates
 - 8.9.6 Nippon Electric Glass (Japan) Competitive Strengths & Weaknesses
- 8.10 Chengdu Guangming (China)
 - 8.10.1 Chengdu Guangming (China) Details
 - 8.10.2 Chengdu Guangming (China) Major Business
 - 8.10.3 Chengdu Guangming (China) Orthophosphate Glass Product and Services
 - 8.10.4 Chengdu Guangming (China) Orthophosphate Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Chengdu Guangming (China) Recent Developments/Updates
 - 8.10.6 Chengdu Guangming (China) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Orthophosphate Glass Industry Chain
- 9.2 Orthophosphate Glass Upstream Analysis
 - 9.2.1 Orthophosphate Glass Core Raw Materials
 - 9.2.2 Main Manufacturers of Orthophosphate Glass Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Orthophosphate Glass Production Mode
- 9.6 Orthophosphate Glass Procurement Model
- 9.7 Orthophosphate Glass Industry Sales Model and Sales Channels
 - 9.7.1 Orthophosphate Glass Sales Model
 - 9.7.2 Orthophosphate Glass Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Orthophosphate Glass Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Orthophosphate Glass Production Value by Region (2021-2026) & (USD Million)

Table 3. World Orthophosphate Glass Production Value by Region (2027-2032) & (USD Million)

Table 4. World Orthophosphate Glass Production Value Market Share by Region (2021-2026)

Table 5. World Orthophosphate Glass Production Value Market Share by Region (2027-2032)

Table 6. World Orthophosphate Glass Production by Region (2021-2026) & (Kilotons)

Table 7. World Orthophosphate Glass Production by Region (2027-2032) & (Kilotons)

Table 8. World Orthophosphate Glass Production Market Share by Region (2021-2026)

Table 9. World Orthophosphate Glass Production Market Share by Region (2027-2032)

Table 10. World Orthophosphate Glass Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Orthophosphate Glass Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Orthophosphate Glass Major Market Trends

Table 13. World Orthophosphate Glass Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Orthophosphate Glass Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Orthophosphate Glass Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Orthophosphate Glass Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Orthophosphate Glass Producers in 2025

Table 18. World Orthophosphate Glass Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Orthophosphate Glass Producers in 2025

Table 20. World Orthophosphate Glass Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Orthophosphate Glass Company Evaluation Quadrant

Table 22. World Orthophosphate Glass Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Orthophosphate Glass Production Site of Key Manufacturer

Table 24. Orthophosphate Glass Market: Company Product Type Footprint

Table 25. Orthophosphate Glass Market: Company Product Application Footprint

Table 26. Orthophosphate Glass Competitive Factors

Table 27. Orthophosphate Glass New Entrant and Capacity Expansion Plans

Table 28. Orthophosphate Glass Mergers & Acquisitions Activity

Table 29. United States VS China Orthophosphate Glass Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Orthophosphate Glass Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Orthophosphate Glass Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Orthophosphate Glass Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Orthophosphate Glass Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Orthophosphate Glass Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Orthophosphate Glass Production Market Share (2021-2026)

Table 37. China Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Orthophosphate Glass Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Orthophosphate Glass Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Orthophosphate Glass Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Orthophosphate Glass Production Market Share (2021-2026)

Table 42. Rest of World Based Orthophosphate Glass Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Orthophosphate Glass Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Orthophosphate Glass Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Orthophosphate Glass Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Orthophosphate Glass Production Market Share (2021-2026)

Table 47. World Orthophosphate Glass Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Orthophosphate Glass Production by Type (2021-2026) & (Kilotons)

Table 49. World Orthophosphate Glass Production by Type (2027-2032) & (Kilotons)

Table 50. World Orthophosphate Glass Production Value by Type (2021-2026) & (USD Million)

Table 51. World Orthophosphate Glass Production Value by Type (2027-2032) & (USD Million)

Table 52. World Orthophosphate Glass Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Orthophosphate Glass Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Orthophosphate Glass Production Value by Density, (USD Million), 2021 & 2025 & 2032

Table 55. World Orthophosphate Glass Production by Density (2021-2026) & (Kilotons)

Table 56. World Orthophosphate Glass Production by Density (2027-2032) & (Kilotons)

Table 57. World Orthophosphate Glass Production Value by Density (2021-2026) & (USD Million)

Table 58. World Orthophosphate Glass Production Value by Density (2027-2032) & (USD Million)

Table 59. World Orthophosphate Glass Average Price by Density (2021-2026) & (US\$/Ton)

Table 60. World Orthophosphate Glass Average Price by Density (2027-2032) & (US\$/Ton)

Table 61. World Orthophosphate Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Orthophosphate Glass Production by Application (2021-2026) & (Kilotons)

Table 63. World Orthophosphate Glass Production by Application (2027-2032) & (Kilotons)

Table 64. World Orthophosphate Glass Production Value by Application (2021-2026) & (USD Million)

Table 65. World Orthophosphate Glass Production Value by Application (2027-2032) & (USD Million)

Table 66. World Orthophosphate Glass Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Orthophosphate Glass Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Corning (USA) Basic Information, Manufacturing Base and Competitors

Table 69. Corning (USA) Major Business

Table 70. Corning (USA) Orthophosphate Glass Product and Services

Table 71. Corning (USA) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Corning (USA) Recent Developments/Updates

Table 73. Corning (USA) Competitive Strengths & Weaknesses

Table 74. Coherent (USA) Basic Information, Manufacturing Base and Competitors

Table 75. Coherent (USA) Major Business

Table 76. Coherent (USA) Orthophosphate Glass Product and Services

Table 77. Coherent (USA) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Coherent (USA) Recent Developments/Updates

Table 79. Coherent (USA) Competitive Strengths & Weaknesses

Table 80. Luxium Solutions (USA) Basic Information, Manufacturing Base and Competitors

Table 81. Luxium Solutions (USA) Major Business

Table 82. Luxium Solutions (USA) Orthophosphate Glass Product and Services

Table 83. Luxium Solutions (USA) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Luxium Solutions (USA) Recent Developments/Updates

Table 85. Luxium Solutions (USA) Competitive Strengths & Weaknesses

Table 86. Jenoptik (Germany) Basic Information, Manufacturing Base and Competitors

Table 87. Jenoptik (Germany) Major Business

Table 88. Jenoptik (Germany) Orthophosphate Glass Product and Services

Table 89. Jenoptik (Germany) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Jenoptik (Germany) Recent Developments/Updates

Table 91. Jenoptik (Germany) Competitive Strengths & Weaknesses

Table 92. HOYA Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 93. HOYA Corporation (Japan) Major Business

Table 94. HOYA Corporation (Japan) Orthophosphate Glass Product and Services

Table 95. HOYA Corporation (Japan) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. HOYA Corporation (Japan) Recent Developments/Updates

Table 97. HOYA Corporation (Japan) Competitive Strengths & Weaknesses

Table 98. OHARA Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 99. OHARA Corporation (Japan) Major Business

Table 100. OHARA Corporation (Japan) Orthophosphate Glass Product and Services

Table 101. OHARA Corporation (Japan) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. OHARA Corporation (Japan) Recent Developments/Updates

Table 103. OHARA Corporation (Japan) Competitive Strengths & Weaknesses

Table 104. AGC Glass (Japan) Basic Information, Manufacturing Base and Competitors

Table 105. AGC Glass (Japan) Major Business

Table 106. AGC Glass (Japan) Orthophosphate Glass Product and Services

Table 107. AGC Glass (Japan) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. AGC Glass (Japan) Recent Developments/Updates

Table 109. AGC Glass (Japan) Competitive Strengths & Weaknesses

Table 110. SUMITA Optical Glass (Japan) Basic Information, Manufacturing Base and Competitors

Table 111. SUMITA Optical Glass (Japan) Major Business

Table 112. SUMITA Optical Glass (Japan) Orthophosphate Glass Product and Services

Table 113. SUMITA Optical Glass (Japan) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. SUMITA Optical Glass (Japan) Recent Developments/Updates

Table 115. SUMITA Optical Glass (Japan) Competitive Strengths & Weaknesses

Table 116. Nippon Electric Glass (Japan) Basic Information, Manufacturing Base and Competitors

Table 117. Nippon Electric Glass (Japan) Major Business

Table 118. Nippon Electric Glass (Japan) Orthophosphate Glass Product and Services

Table 119. Nippon Electric Glass (Japan) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 120. Nippon Electric Glass (Japan) Recent Developments/Updates
- Table 121. Nippon Electric Glass (Japan) Competitive Strengths & Weaknesses
- Table 122. Chengdu Guangming (China) Basic Information, Manufacturing Base and Competitors
- Table 123. Chengdu Guangming (China) Major Business
- Table 124. Chengdu Guangming (China) Orthophosphate Glass Product and Services
- Table 125. Chengdu Guangming (China) Orthophosphate Glass Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Chengdu Guangming (China) Recent Developments/Updates
- Table 127. Chengdu Guangming (China) Competitive Strengths & Weaknesses
- Table 128. Global Key Players of Orthophosphate Glass Upstream (Raw Materials)
- Table 129. Global Orthophosphate Glass Typical Customers
- Table 130. Orthophosphate Glass Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Orthophosphate Glass Picture

Figure 2. World Orthophosphate Glass Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Orthophosphate Glass Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 5. World Orthophosphate Glass Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Orthophosphate Glass Production Value Market Share by Region (2021-2032)

Figure 7. World Orthophosphate Glass Production Market Share by Region (2021-2032)

Figure 8. North America Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 9. Europe Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 10. China Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 11. Japan Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 12. India Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 13. Southeast Asia Orthophosphate Glass Production (2021-2032) & (Kilotons)

Figure 14. Orthophosphate Glass Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 17. World Orthophosphate Glass Consumption Market Share by Region (2021-2032)

Figure 18. United States Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 19. China Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 24. India Orthophosphate Glass Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Orthophosphate Glass by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Orthophosphate Glass Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Orthophosphate Glass Markets in 2025

Figure 28. United States VS China: Orthophosphate Glass Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Orthophosphate Glass Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Orthophosphate Glass Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Orthophosphate Glass Production Market Share 2025

Figure 32. China Based Manufacturers Orthophosphate Glass Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Orthophosphate Glass Production Market Share 2025

Figure 34. World Orthophosphate Glass Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Orthophosphate Glass Production Value Market Share by Type in 2025

Figure 36. Alkali Orthophosphate Glass

Figure 37. Alkaline Orthophosphate Glass

Figure 38. World Orthophosphate Glass Production Market Share by Type (2021-2032)

Figure 39. World Orthophosphate Glass Production Value Market Share by Type (2021-2032)

Figure 40. World Orthophosphate Glass Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Orthophosphate Glass Production Value by Density, (USD Million), 2021 & 2025 & 2032

Figure 42. World Orthophosphate Glass Production Value Market Share by Density in 2025

Figure 43. 3.5 g/cm³

Figure 47. World Orthophosphate Glass Production Market Share by Density (2021-2032)

Figure 48. World Orthophosphate Glass Production Value Market Share by Density (2021-2032)

Figure 49. World Orthophosphate Glass Average Price by Density (2021-2032) & (US\$/Ton)

Figure 50. World Orthophosphate Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Orthophosphate Glass Production Value Market Share by Application in 2025

Figure 52. Biomedical

Figure 53. Optoelectronic

Figure 54. Energy Material

Figure 55. Others

Figure 56. World Orthophosphate Glass Production Market Share by Application (2021-2032)

Figure 57. World Orthophosphate Glass Production Value Market Share by Application (2021-2032)

Figure 58. World Orthophosphate Glass Average Price by Application (2021-2032) & (US\$/Ton)

Figure 59. Orthophosphate Glass Industry Chain

Figure 60. Orthophosphate Glass Procurement Model

Figure 61. Orthophosphate Glass Sales Model

Figure 62. Orthophosphate Glass Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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