

Global Fluorophosphate Optical Glass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluorophosphate Optical Glass market size is expected to reach \$ 136 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Fluorophosphate optical glass is a type of specialty glass that utilizes phosphates as the primary network former while incorporating fluorides to tune optical properties. Characterized by low dispersion, high transmittance, low nonlinearity, and excellent transmission from the ultraviolet to the near-infrared range, it is suitable for applications in high-end lenses, lasers, fiber-optic amplifiers, precision instruments, and specialized optical systems.

The upstream sector comprises suppliers of high-purity phosphates, fluorides, rare-earth oxides, quartz crucibles, melting equipment, and testing instruments; the downstream sector encompasses manufacturers of optical lenses, lasers, optical communication devices, medical imaging equipment, aerospace and defense optoelectronics, scientific research instruments, and high-end consumer electronics.

The global market for fluorophosphate optical glass features a unit price of \$35 per kilogram and an annual sales volume of approximately 2,350 tons, with a global annual production capacity of roughly 2,700-3,200 tons and an industry profit margin of 32%.

Future developments in global fluorophosphate optical glass will focus on achieving lower dispersion, higher transmittance, enhanced weather resistance, and greater batch-to-batch consistency. Driven by growing demand in high-end imaging, short-wave infrared (SWIR) detection, LiDAR, fiber lasers, and precision spectroscopic equipment, the application scope for materials with low Abbe numbers and anomalous partial

dispersion will continue to expand. Manufacturers will strengthen controls over high-purity raw materials and melting atmospheres, while optimizing platinum crucible corrosion inhibition and precision annealing processes to minimize striae, bubbles, and fluctuations in optical constants. Concurrently, R&D efforts will prioritize eco-friendly lead-free formulations, rare-earth-doped glass, molding-grade glass, and the production of large, homogeneous glass components; supply models will evolve from the sale of standard grades toward customized formulations, precision preforms, and the collaborative development of integrated optical systems.

This report studies the global Fluorophosphate Optical Glass production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Fluorophosphate Optical Glass total production and demand, 2021-2032, (Tons)

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

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

Global Fluorophosphate Optical Glass consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Fluorophosphate Optical Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Fluorophosphate Optical Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Fluorophosphate Optical Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Fluorophosphate Optical 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 SCHOTT, Ohara, HOYA, Hikari

Glass, SUMITA Optical Glass, CDGM, Hubei New Huaguang Information Materials, GBJBD, 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 Fluorophosphate Optical Glass market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Fluorophosphate Optical Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluorophosphate Optical Glass Market, Segmentation by Type:

High-Fluoride Fluorophosphate Glass

Phosphate-Rich Fluorophosphate Glass

Rare-Earth-Doped Fluorophosphate Glass

Others

Global Fluorophosphate Optical Glass Market, Segmentation by Refractive Index:

Ultra-Low Refractive Index Glass

Low Refractive Index Glass

Medium Refractive Index Glass

High Refractive Index Glass

Global Fluorophosphate Optical Glass Market, Segmentation by Processing Grade:

Polishing-Grade Optical Glass

Precision-Molding-Grade Optical Glass

Fiber-Drawing-Grade Optical Glass

Others

Global Fluorophosphate Optical Glass Market, Segmentation by Application:

Camera and Imaging Lens Glass

Telescope and Microscope Glass

Optical Fiber and Amplifier Glass

Infrared Imaging

Medical Optical

Others

Companies Profiled:

SCHOTT

Ohara

HOYA

Hikari Glass

SUMITA Optical Glass

CDGM

Hubei New Huaguang Information Materials

GBJBD

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.3.2 United States VS China: Fluorophosphate Optical Glass Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Fluorophosphate Optical Glass Manufacturers and Market Share, 2021-2026

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

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

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

4.5 China Based Fluorophosphate Optical Glass Manufacturers and Market Share

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

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

4.5.3 China Based Manufacturers Fluorophosphate Optical Glass Production (2021-2026)

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 High-Fluoride Fluorophosphate Glass

5.2.2 Phosphate-Rich Fluorophosphate Glass

5.2.3 Rare-Earth-Doped Fluorophosphate Glass

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Fluorophosphate Optical Glass Production by Type (2021-2032)

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

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

6 MARKET ANALYSIS BY REFRACTIVE INDEX

6.1 World Fluorophosphate Optical Glass Market Size Overview by Refractive Index: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Refractive Index

6.2.1 Ultra-Low Refractive Index Glass

6.2.2 Low Refractive Index Glass

6.2.3 Medium Refractive Index Glass

6.2.4 High Refractive Index Glass

6.3 Market Segment by Refractive Index

6.3.1 World Fluorophosphate Optical Glass Production by Refractive Index (2021-2032)

6.3.2 World Fluorophosphate Optical Glass Production Value by Refractive Index (2021-2032)

6.3.3 World Fluorophosphate Optical Glass Average Price by Refractive Index (2021-2032)

7 MARKET ANALYSIS BY PROCESSING GRADE

7.1 World Fluorophosphate Optical Glass Market Size Overview by Processing Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Processing Grade

7.2.1 Polishing-Grade Optical Glass

7.2.2 Precision-Molding-Grade Optical Glass

7.2.3 Fiber-Drawing-Grade Optical Glass

7.2.4 Others

7.3 Market Segment by Processing Grade

7.3.1 World Fluorophosphate Optical Glass Production by Processing Grade (2021-2032)

7.3.2 World Fluorophosphate Optical Glass Production Value by Processing Grade (2021-2032)

7.3.3 World Fluorophosphate Optical Glass Average Price by Processing Grade (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Fluorophosphate Optical Glass Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Camera and Imaging Lens Glass

8.2.2 Telescope and Microscope Glass

8.2.3 Optical Fiber and Amplifier Glass

8.2.4 Infrared Imaging

8.2.5 Medical Optical

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Fluorophosphate Optical Glass Production by Application (2021-2032)

8.3.2 World Fluorophosphate Optical Glass Production Value by Application (2021-2032)

8.3.3 World Fluorophosphate Optical Glass Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SCHOTT

9.1.1 SCHOTT Details

9.1.2 SCHOTT Major Business

9.1.3 SCHOTT Fluorophosphate Optical Glass Product and Services

9.1.4 SCHOTT Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SCHOTT Recent Developments/Updates

9.1.6 SCHOTT Competitive Strengths & Weaknesses

9.2 Ohara

9.2.1 Ohara Details

9.2.2 Ohara Major Business

9.2.3 Ohara Fluorophosphate Optical Glass Product and Services

9.2.4 Ohara Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Ohara Recent Developments/Updates

9.2.6 Ohara Competitive Strengths & Weaknesses

9.3 HOYA

9.3.1 HOYA Details

9.3.2 HOYA Major Business

9.3.3 HOYA Fluorophosphate Optical Glass Product and Services

9.3.4 HOYA Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 HOYA Recent Developments/Updates

9.3.6 HOYA Competitive Strengths & Weaknesses

9.4 Hikari Glass

9.4.1 Hikari Glass Details

9.4.2 Hikari Glass Major Business

9.4.3 Hikari Glass Fluorophosphate Optical Glass Product and Services

9.4.4 Hikari Glass Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Hikari Glass Recent Developments/Updates

9.4.6 Hikari Glass Competitive Strengths & Weaknesses

9.5 SUMITA Optical Glass

9.5.1 SUMITA Optical Glass Details

9.5.2 SUMITA Optical Glass Major Business

9.5.3 SUMITA Optical Glass Fluorophosphate Optical Glass Product and Services

9.5.4 SUMITA Optical Glass Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 SUMITA Optical Glass Recent Developments/Updates

9.5.6 SUMITA Optical Glass Competitive Strengths & Weaknesses

9.6 CDGM

9.6.1 CDGM Details

9.6.2 CDGM Major Business

9.6.3 CDGM Fluorophosphate Optical Glass Product and Services

9.6.4 CDGM Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 CDGM Recent Developments/Updates

9.6.6 CDGM Competitive Strengths & Weaknesses

9.7 Hubei New Huaguang Information Materials

9.7.1 Hubei New Huaguang Information Materials Details

9.7.2 Hubei New Huaguang Information Materials Major Business

9.7.3 Hubei New Huaguang Information Materials Fluorophosphate Optical Glass Product and Services

9.7.4 Hubei New Huaguang Information Materials Fluorophosphate Optical Glass Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Hubei New Huaguang Information Materials Recent Developments/Updates

9.7.6 Hubei New Huaguang Information Materials Competitive Strengths & Weaknesses

9.8 GBJBD

9.8.1 GBJBD Details

9.8.2 GBJBD Major Business

9.8.3 GBJBD Fluorophosphate Optical Glass Product and Services

9.8.4 GBJBD Fluorophosphate Optical Glass Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.8.5 GBJBD Recent Developments/Updates

9.8.6 GBJBD Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Fluorophosphate Optical Glass Industry Chain

10.2 Fluorophosphate Optical Glass Upstream Analysis

10.2.1 Fluorophosphate Optical Glass Core Raw Materials

10.2.2 Main Manufacturers of Fluorophosphate Optical Glass Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Fluorophosphate Optical Glass Production Mode

10.6 Fluorophosphate Optical Glass Procurement Model

10.7 Fluorophosphate Optical Glass Industry Sales Model and Sales Channels

10.7.1 Fluorophosphate Optical Glass Sales Model

10.7.2 Fluorophosphate Optical Glass 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 Fluorophosphate Optical Glass Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Fluorophosphate Optical Glass Production by Region (2021-2026) & (Tons)

Table 7. World Fluorophosphate Optical Glass Production by Region (2027-2032) & (Tons)

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

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

Table 10. World Fluorophosphate Optical Glass Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Fluorophosphate Optical Glass Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Fluorophosphate Optical Glass Major Market Trends

Table 13. World Fluorophosphate Optical Glass Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Fluorophosphate Optical Glass Consumption by Region (2021-2026) & (Tons)

Table 15. World Fluorophosphate Optical Glass Consumption Forecast by Region (2027-2032) & (Tons)

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

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

Table 18. World Fluorophosphate Optical Glass Production by Manufacturer (2021-2026) & (Tons)

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

Table 20. World Fluorophosphate Optical Glass Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Fluorophosphate Optical Glass Company Evaluation Quadrant

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

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

Table 24. Fluorophosphate Optical Glass Market: Company Product Type Footprint

Table 25. Fluorophosphate Optical Glass Market: Company Product Application Footprint

Table 26. Fluorophosphate Optical Glass Competitive Factors

Table 27. Fluorophosphate Optical Glass New Entrant and Capacity Expansion Plans

Table 28. Fluorophosphate Optical Glass Mergers & Acquisitions Activity

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

Table 30. United States VS China Fluorophosphate Optical Glass Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Fluorophosphate Optical Glass Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

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

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

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

Table 35. United States Based Manufacturers Fluorophosphate Optical Glass Production (2021-2026) & (Tons)

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

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

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

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

Table 40. China Based Manufacturers Fluorophosphate Optical Glass Production, (2021-2026) & (Tons)

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

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

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

Table 44. Rest of World Based Manufacturers Fluorophosphate Optical Glass Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Fluorophosphate Optical Glass Production, (2021-2026) & (Tons)

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

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

Table 48. World Fluorophosphate Optical Glass Production by Type (2021-2026) & (Tons)

Table 49. World Fluorophosphate Optical Glass Production by Type (2027-2032) & (Tons)

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

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

Table 52. World Fluorophosphate Optical Glass Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Fluorophosphate Optical Glass Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Fluorophosphate Optical Glass Production Value by Refractive Index, (USD Million), 2021 & 2025 & 2032

Table 55. World Fluorophosphate Optical Glass Production by Refractive Index (2021-2026) & (Tons)

Table 56. World Fluorophosphate Optical Glass Production by Refractive Index (2027-2032) & (Tons)

Table 57. World Fluorophosphate Optical Glass Production Value by Refractive Index (2021-2026) & (USD Million)

Table 58. World Fluorophosphate Optical Glass Production Value by Refractive Index (2027-2032) & (USD Million)

Table 59. World Fluorophosphate Optical Glass Average Price by Refractive Index (2021-2026) & (US\$/kg)

Table 60. World Fluorophosphate Optical Glass Average Price by Refractive Index

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

Table 61. World Fluorophosphate Optical Glass Production Value by Processing Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Fluorophosphate Optical Glass Production by Processing Grade (2021-2026) & (Tons)

Table 63. World Fluorophosphate Optical Glass Production by Processing Grade (2027-2032) & (Tons)

Table 64. World Fluorophosphate Optical Glass Production Value by Processing Grade (2021-2026) & (USD Million)

Table 65. World Fluorophosphate Optical Glass Production Value by Processing Grade (2027-2032) & (USD Million)

Table 66. World Fluorophosphate Optical Glass Average Price by Processing Grade (2021-2026) & (US\$/kg)

Table 67. World Fluorophosphate Optical Glass Average Price by Processing Grade (2027-2032) & (US\$/kg)

Table 68. World Fluorophosphate Optical Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Fluorophosphate Optical Glass Production by Application (2021-2026) & (Tons)

Table 70. World Fluorophosphate Optical Glass Production by Application (2027-2032) & (Tons)

Table 71. World Fluorophosphate Optical Glass Production Value by Application (2021-2026) & (USD Million)

Table 72. World Fluorophosphate Optical Glass Production Value by Application (2027-2032) & (USD Million)

Table 73. World Fluorophosphate Optical Glass Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Fluorophosphate Optical Glass Average Price by Application (2027-2032) & (US\$/kg)

Table 75. SCHOTT Basic Information, Manufacturing Base and Competitors

Table 76. SCHOTT Major Business

Table 77. SCHOTT Fluorophosphate Optical Glass Product and Services

Table 78. SCHOTT Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SCHOTT Recent Developments/Updates

Table 80. SCHOTT Competitive Strengths & Weaknesses

Table 81. Ohara Basic Information, Manufacturing Base and Competitors

Table 82. Ohara Major Business

Table 83. Ohara Fluorophosphate Optical Glass Product and Services

Table 84. Ohara Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Ohara Recent Developments/Updates
Table 86. Ohara Competitive Strengths & Weaknesses
Table 87. HOYA Basic Information, Manufacturing Base and Competitors
Table 88. HOYA Major Business
Table 89. HOYA Fluorophosphate Optical Glass Product and Services
Table 90. HOYA Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. HOYA Recent Developments/Updates
Table 92. HOYA Competitive Strengths & Weaknesses
Table 93. Hikari Glass Basic Information, Manufacturing Base and Competitors
Table 94. Hikari Glass Major Business
Table 95. Hikari Glass Fluorophosphate Optical Glass Product and Services
Table 96. Hikari Glass Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Hikari Glass Recent Developments/Updates
Table 98. Hikari Glass Competitive Strengths & Weaknesses
Table 99. SUMITA Optical Glass Basic Information, Manufacturing Base and Competitors
Table 100. SUMITA Optical Glass Major Business
Table 101. SUMITA Optical Glass Fluorophosphate Optical Glass Product and Services
Table 102. SUMITA Optical Glass Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. SUMITA Optical Glass Recent Developments/Updates
Table 104. SUMITA Optical Glass Competitive Strengths & Weaknesses
Table 105. CDGM Basic Information, Manufacturing Base and Competitors
Table 106. CDGM Major Business
Table 107. CDGM Fluorophosphate Optical Glass Product and Services
Table 108. CDGM Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. CDGM Recent Developments/Updates
Table 110. CDGM Competitive Strengths & Weaknesses
Table 111. Hubei New Huaguang Information Materials Basic Information, Manufacturing Base and Competitors
Table 112. Hubei New Huaguang Information Materials Major Business
Table 113. Hubei New Huaguang Information Materials Fluorophosphate Optical Glass Product and Services

Table 114. Hubei New Huaguang Information Materials Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hubei New Huaguang Information Materials Recent Developments/Updates

Table 116. Hubei New Huaguang Information Materials Competitive Strengths & Weaknesses

Table 117. GBJBD Basic Information, Manufacturing Base and Competitors

Table 118. GBJBD Major Business

Table 119. GBJBD Fluorophosphate Optical Glass Product and Services

Table 120. GBJBD Fluorophosphate Optical Glass Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. GBJBD Recent Developments/Updates

Table 122. GBJBD Competitive Strengths & Weaknesses

Table 123. Global Key Players of Fluorophosphate Optical Glass Upstream (Raw Materials)

Table 124. Global Fluorophosphate Optical Glass Typical Customers

Table 125. Fluorophosphate Optical Glass Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Fluorophosphate Optical Glass Picture

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

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

Figure 4. World Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 5. World Fluorophosphate Optical Glass Average Price (2021-2032) & (US\$/kg)

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

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

Figure 8. North America Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 9. Europe Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 10. China Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 11. Japan Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 12. India Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Fluorophosphate Optical Glass Production (2021-2032) & (Tons)

Figure 14. Fluorophosphate Optical Glass Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

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

Figure 18. United States Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 19. China Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 20. Europe Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 21. Japan Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 22. South Korea Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

Figure 24. India Fluorophosphate Optical Glass Consumption (2021-2032) & (Tons)

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

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

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

Figure 28. United States VS China: Fluorophosphate Optical Glass Production Value Market Share Comparison (2021 & 2025 & 2032)

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

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

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

Figure 32. China Based Manufacturers Fluorophosphate Optical Glass Production Market Share 2025

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

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

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

Figure 36. High-Fluoride Fluorophosphate Glass

Figure 37. Phosphate-Rich Fluorophosphate Glass

Figure 38. Rare-Earth-Doped Fluorophosphate Glass

Figure 39. Others

Figure 40. World Fluorophosphate Optical Glass Production Market Share by Type (2021-2032)

Figure 41. World Fluorophosphate Optical Glass Production Value Market Share by Type (2021-2032)

Figure 42. World Fluorophosphate Optical Glass Average Price by Type (2021-2032) & (US\$/kg)

Figure 43. World Fluorophosphate Optical Glass Production Value by Refractive Index, (USD Million), 2021 & 2025 & 2032

Figure 44. World Fluorophosphate Optical Glass Production Value Market Share by Refractive Index in 2025

Figure 45. Ultra-Low Refractive Index Glass

Figure 46. Low Refractive Index Glass

Figure 47. Medium Refractive Index Glass

Figure 48. High Refractive Index Glass

Figure 49. World Fluorophosphate Optical Glass Production Market Share by Refractive

Index (2021-2032)

Figure 50. World Fluorophosphate Optical Glass Production Value Market Share by Refractive Index (2021-2032)

Figure 51. World Fluorophosphate Optical Glass Average Price by Refractive Index (2021-2032) & (US\$/kg)

Figure 52. World Fluorophosphate Optical Glass Production Value by Processing Grade, (USD Million), 2021 & 2025 & 2032

Figure 53. World Fluorophosphate Optical Glass Production Value Market Share by Processing Grade in 2025

Figure 54. Polishing-Grade Optical Glass

Figure 55. Precision-Molding-Grade Optical Glass

Figure 56. Fiber-Drawing-Grade Optical Glass

Figure 57. Others

Figure 58. World Fluorophosphate Optical Glass Production Market Share by Processing Grade (2021-2032)

Figure 59. World Fluorophosphate Optical Glass Production Value Market Share by Processing Grade (2021-2032)

Figure 60. World Fluorophosphate Optical Glass Average Price by Processing Grade (2021-2032) & (US\$/kg)

Figure 61. World Fluorophosphate Optical Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Fluorophosphate Optical Glass Production Value Market Share by Application in 2025

Figure 63. Camera and Imaging Lens Glass

Figure 64. Telescope and Microscope Glass

Figure 65. Optical Fiber and Amplifier Glass

Figure 66. Infrared Imaging

Figure 67. Medical Optical

Figure 68. Others

Figure 69. World Fluorophosphate Optical Glass Production Market Share by Application (2021-2032)

Figure 70. World Fluorophosphate Optical Glass Production Value Market Share by Application (2021-2032)

Figure 71. World Fluorophosphate Optical Glass Average Price by Application (2021-2032) & (US\$/kg)

Figure 72. Fluorophosphate Optical Glass Industry Chain

Figure 73. Fluorophosphate Optical Glass Procurement Model

Figure 74. Fluorophosphate Optical Glass Sales Model

Figure 75. Fluorophosphate Optical Glass Sales Channels, Direct Sales, and

Distribution

Figure 76. Methodology

Figure 77. Research Process and Data Source

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