

Global Beta-Gallium Oxide (β -Ga₂O₃) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Beta-Gallium Oxide (β -Ga₂O₃) market size was valued at US\$ 81.1 million in 2024 and is forecast to a readjusted size of USD 178 million by 2031 with a CAGR of 12.0% during review period.

Beta gallium oxide (β -Ga₂O₃) is a wide bandgap semiconductor material, and it has been used for deep ultraviolet (UV) photodetectors and high speed & high power electronics. Its wide bandgap of 4.8 - 4.9 eV, high breakdown field of 8 MV/cm, high dielectric constant and good electron mobilities can be translated into a high voltage Baliga figure of merit (HV-BFOM) that is > 3000 times greater than that of Si, > 8 times greater than that of 4H-SiC, and > 4 times that of GaN. In addition, its high frequency Baliga figure of merit is ~150 times that of Si, ~3 times that of 4H-SiC, and 50% greater than that of GaN.

This report is a detailed and comprehensive analysis for global Beta-Gallium Oxide (β -Ga₂O₃) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Beta-Gallium Oxide (β -Ga₂O₃) market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Beta-Gallium Oxide (β -Ga₂O₃) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Beta-Gallium Oxide (β -Ga₂O₃) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Beta-Gallium Oxide (β -Ga₂O₃) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Beta-Gallium Oxide (β -Ga₂O₃)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Beta-Gallium Oxide (β -Ga₂O₃) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Novel Crystal Technology, Kyma Technologies, Tamura Corporation, etc.

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

Market Segmentation

Beta-Gallium Oxide (β -Ga₂O₃) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Substrates

Epitaxial Wafers

Market segment by Application

Power Electronics

Automotive

Telecom

Aerospace

Others

Major players covered

Novel Crystal Technology

Kyma Technologies

Tamura Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Beta-Gallium Oxide (β -Ga₂O₃) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Beta-Gallium Oxide (β -Ga₂O₃), with price, sales quantity, revenue, and global market share of Beta-Gallium Oxide (β -Ga₂O₃) from 2020 to 2025.

Chapter 3, the Beta-Gallium Oxide (β -Ga₂O₃) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Beta-Gallium Oxide (β -Ga₂O₃) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Beta-Gallium Oxide (β -Ga₂O₃) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Beta-Gallium Oxide (β -Ga₂O₃).

Chapter 14 and 15, to describe Beta-Gallium Oxide (β -Ga₂O₃) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Substrates

1.3.3 Epitaxial Wafers

1.4 Market Analysis by Application

1.4.1 Overview: Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Power Electronics

1.4.3 Automotive

1.4.4 Telecom

1.4.5 Aerospace

1.4.6 Others

1.5 Global Beta-Gallium Oxide (?-Ga₂O₃) Market Size & Forecast

1.5.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity (2020-2031)

1.5.3 Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Novel Crystal Technology

2.1.1 Novel Crystal Technology Details

2.1.2 Novel Crystal Technology Major Business

2.1.3 Novel Crystal Technology Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

2.1.4 Novel Crystal Technology Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Novel Crystal Technology Recent Developments/Updates

2.2 Kyma Technologies

2.2.1 Kyma Technologies Details

2.2.2 Kyma Technologies Major Business

2.2.3 Kyma Technologies Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

2.2.4 Kyma Technologies Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Kyma Technologies Recent Developments/Updates

2.3 Tamura Corporation

2.3.1 Tamura Corporation Details

2.3.2 Tamura Corporation Major Business

2.3.3 Tamura Corporation Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

2.3.4 Tamura Corporation Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Tamura Corporation Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BETA-GALLIUM OXIDE (?-GA₂O₃) BY MANUFACTURER

3.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Manufacturer (2020-2025)

3.2 Global Beta-Gallium Oxide (?-Ga₂O₃) Revenue by Manufacturer (2020-2025)

3.3 Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Beta-Gallium Oxide (?-Ga₂O₃) by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Beta-Gallium Oxide (?-Ga₂O₃) Manufacturer Market Share in 2024

3.4.3 Top 6 Beta-Gallium Oxide (?-Ga₂O₃) Manufacturer Market Share in 2024

3.5 Beta-Gallium Oxide (?-Ga₂O₃) Market: Overall Company Footprint Analysis

3.5.1 Beta-Gallium Oxide (?-Ga₂O₃) Market: Region Footprint

3.5.2 Beta-Gallium Oxide (?-Ga₂O₃) Market: Company Product Type Footprint

3.5.3 Beta-Gallium Oxide (?-Ga₂O₃) Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Market Size by Region

4.1.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Region (2020-2031)

4.1.2 Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Region (2020-2031)

4.1.3 Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price by Region (2020-2031)

4.2 North America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031)

4.3 Europe Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031)

4.4 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031)

4.5 South America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031)

4.6 Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type (2020-2031)

5.2 Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Type (2020-2031)

5.3 Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2020-2031)

6.2 Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Application (2020-2031)

6.3 Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type (2020-2031)

7.2 North America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2020-2031)

7.3 North America Beta-Gallium Oxide (?-Ga₂O₃) Market Size by Country

7.3.1 North America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country (2020-2031)

7.3.2 North America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type (2020-2031)

8.2 Europe Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2020-2031)

8.3 Europe Beta-Gallium Oxide (?-Ga₂O₃) Market Size by Country

8.3.1 Europe Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country (2020-2031)

8.3.2 Europe Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

- 8.3.4 France Market Size and Forecast (2020-2031)
- 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
- 8.3.6 Russia Market Size and Forecast (2020-2031)
- 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Market Size by Region
 - 9.3.1 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type (2020-2031)
- 10.2 South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2020-2031)
- 10.3 South America Beta-Gallium Oxide (?-Ga₂O₃) Market Size by Country
 - 10.3.1 South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type

(2020-2031)

11.2 Middle East & Africa Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Beta-Gallium Oxide (β -Ga₂O₃) Market Size by Country

11.3.1 Middle East & Africa Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Beta-Gallium Oxide (β -Ga₂O₃) Market Drivers

12.2 Beta-Gallium Oxide (β -Ga₂O₃) Market Restraints

12.3 Beta-Gallium Oxide (β -Ga₂O₃) Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Beta-Gallium Oxide (β -Ga₂O₃) and Key Manufacturers

13.2 Manufacturing Costs Percentage of Beta-Gallium Oxide (β -Ga₂O₃)

13.3 Beta-Gallium Oxide (β -Ga₂O₃) Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Beta-Gallium Oxide (β -Ga₂O₃) Typical Distributors

14.3 Beta-Gallium Oxide (β -Ga₂O₃) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Novel Crystal Technology Basic Information, Manufacturing Base and Competitors

Table 4. Novel Crystal Technology Major Business

Table 5. Novel Crystal Technology Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

Table 6. Novel Crystal Technology Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Novel Crystal Technology Recent Developments/Updates

Table 8. Kyma Technologies Basic Information, Manufacturing Base and Competitors

Table 9. Kyma Technologies Major Business

Table 10. Kyma Technologies Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

Table 11. Kyma Technologies Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Kyma Technologies Recent Developments/Updates

Table 13. Tamura Corporation Basic Information, Manufacturing Base and Competitors

Table 14. Tamura Corporation Major Business

Table 15. Tamura Corporation Beta-Gallium Oxide (?-Ga₂O₃) Product and Services

Table 16. Tamura Corporation Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Tamura Corporation Recent Developments/Updates

Table 18. Global Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Manufacturer (2020-2025) & (K Pcs)

Table 19. Global Beta-Gallium Oxide (?-Ga₂O₃) Revenue by Manufacturer (2020-2025) & (USD Million)

Table 20. Global Beta-Gallium Oxide (?-Ga₂O₃) Average Price by Manufacturer (2020-2025) & (US\$/Pcs)

Table 21. Market Position of Manufacturers in Beta-Gallium Oxide (?-Ga₂O₃), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 22. Head Office and Beta-Gallium Oxide (β -Ga₂O₃) Production Site of Key Manufacturer

Table 23. Beta-Gallium Oxide (β -Ga₂O₃) Market: Company Product Type Footprint

Table 24. Beta-Gallium Oxide (β -Ga₂O₃) Market: Company Product Application Footprint

Table 25. Beta-Gallium Oxide (β -Ga₂O₃) New Market Entrants and Barriers to Market Entry

Table 26. Beta-Gallium Oxide (β -Ga₂O₃) Mergers, Acquisition, Agreements, and Collaborations

Table 27. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 28. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Region (2020-2025) & (K Pcs)

Table 29. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Region (2026-2031) & (K Pcs)

Table 30. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Region (2020-2025) & (USD Million)

Table 31. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Region (2026-2031) & (USD Million)

Table 32. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Region (2020-2025) & (US\$/Pcs)

Table 33. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Region (2026-2031) & (US\$/Pcs)

Table 34. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2020-2025) & (K Pcs)

Table 35. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2026-2031) & (K Pcs)

Table 36. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Type (2020-2025) & (USD Million)

Table 37. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Type (2026-2031) & (USD Million)

Table 38. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Type (2020-2025) & (US\$/Pcs)

Table 39. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Type (2026-2031) & (US\$/Pcs)

Table 40. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2020-2025) & (K Pcs)

Table 41. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2026-2031) & (K Pcs)

Table 42. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Application (2020-2025) & (USD Million)

Table 43. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Application (2026-2031) & (USD Million)

Table 44. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Application (2020-2025) & (US\$/Pcs)

Table 45. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Application (2026-2031) & (US\$/Pcs)

Table 46. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2020-2025) & (K Pcs)

Table 47. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2026-2031) & (K Pcs)

Table 48. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2020-2025) & (K Pcs)

Table 49. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2026-2031) & (K Pcs)

Table 50. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Country (2020-2025) & (K Pcs)

Table 51. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Country (2026-2031) & (K Pcs)

Table 52. North America Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Country (2020-2025) & (USD Million)

Table 53. North America Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Country (2026-2031) & (USD Million)

Table 54. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2020-2025) & (K Pcs)

Table 55. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Type (2026-2031) & (K Pcs)

Table 56. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2020-2025) & (K Pcs)

Table 57. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Application (2026-2031) & (K Pcs)

Table 58. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Country (2020-2025) & (K Pcs)

Table 59. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity by Country (2026-2031) & (K Pcs)

Table 60. Europe Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Country (2020-2025) & (USD Million)

Table 61. Europe Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Country

(2026-2031) & (USD Million)

Table 62. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2020-2025) & (K Pcs)

Table 63. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2026-2031) & (K Pcs)

Table 64. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application
(2020-2025) & (K Pcs)

Table 65. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application
(2026-2031) & (K Pcs)

Table 66. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Region
(2020-2025) & (K Pcs)

Table 67. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Region
(2026-2031) & (K Pcs)

Table 68. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Region
(2020-2025) & (USD Million)

Table 69. Asia-Pacific Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Region
(2026-2031) & (USD Million)

Table 70. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2020-2025) & (K Pcs)

Table 71. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2026-2031) & (K Pcs)

Table 72. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application
(2020-2025) & (K Pcs)

Table 73. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application
(2026-2031) & (K Pcs)

Table 74. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country
(2020-2025) & (K Pcs)

Table 75. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country
(2026-2031) & (K Pcs)

Table 76. South America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by
Country (2020-2025) & (USD Million)

Table 77. South America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by
Country (2026-2031) & (USD Million)

Table 78. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2020-2025) & (K Pcs)

Table 79. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Type
(2026-2031) & (K Pcs)

Table 80. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by
Application (2020-2025) & (K Pcs)

Table 81. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Application (2026-2031) & (K Pcs)

Table 82. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country (2020-2025) & (K Pcs)

Table 83. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity by Country (2026-2031) & (K Pcs)

Table 84. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Country (2020-2025) & (USD Million)

Table 85. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value by Country (2026-2031) & (USD Million)

Table 86. Beta-Gallium Oxide (?-Ga₂O₃) Raw Material

Table 87. Key Manufacturers of Beta-Gallium Oxide (?-Ga₂O₃) Raw Materials

Table 88. Beta-Gallium Oxide (?-Ga₂O₃) Typical Distributors

Table 89. Beta-Gallium Oxide (?-Ga₂O₃) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Beta-Gallium Oxide (β -Ga₂O₃) Picture

Figure 2. Global Beta-Gallium Oxide (β -Ga₂O₃) Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Beta-Gallium Oxide (β -Ga₂O₃) Revenue Market Share by Type in 2024

Figure 4. Substrates Examples

Figure 5. Epitaxial Wafers Examples

Figure 6. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Beta-Gallium Oxide (β -Ga₂O₃) Revenue Market Share by Application in 2024

Figure 8. Power Electronics Examples

Figure 9. Automotive Examples

Figure 10. Telecom Examples

Figure 11. Aerospace Examples

Figure 12. Others Examples

Figure 13. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity (2020-2031) & (K Pcs)

Figure 16. Global Beta-Gallium Oxide (β -Ga₂O₃) Price (2020-2031) & (US\$/Pcs)

Figure 17. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Beta-Gallium Oxide (β -Ga₂O₃) Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Beta-Gallium Oxide (β -Ga₂O₃) by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Beta-Gallium Oxide (β -Ga₂O₃) Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Beta-Gallium Oxide (β -Ga₂O₃) Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value Market Share by

Region (2020-2031)

Figure 24. North America Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 29. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Type (2020-2031) & (US\$/Pcs)

Figure 32. Global Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Beta-Gallium Oxide (β -Ga₂O₃) Revenue Market Share by Application (2020-2031)

Figure 34. Global Beta-Gallium Oxide (β -Ga₂O₃) Average Price by Application (2020-2031) & (US\$/Pcs)

Figure 35. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 47. France Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value Market Share by Region (2020-2031)

Figure 55. China Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 58. India Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Beta-Gallium Oxide (β -Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Beta-Gallium Oxide (β -Ga₂O₃) Sales Quantity Market Share

by Application (2020-2031)

Figure 63. South America Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Beta-Gallium Oxide (?-Ga₂O₃) Consumption Value (2020-2031) & (USD Million)

Figure 75. Beta-Gallium Oxide (?-Ga₂O₃) Market Drivers

Figure 76. Beta-Gallium Oxide (?-Ga₂O₃) Market Restraints

Figure 77. Beta-Gallium Oxide (?-Ga₂O₃) Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Beta-Gallium Oxide (?-Ga₂O₃) in 2024

Figure 80. Manufacturing Process Analysis of Beta-Gallium Oxide (?-Ga₂O₃)

Figure 81. Beta-Gallium Oxide (?-Ga₂O₃) Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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