

# Global $\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global  $\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal market size was valued at US\$ 92.18 million in 2025 and is forecast to a readjusted size of US\$ 547 million by 2032 with a CAGR of 29.3% during review period.

$\alpha$ -Gallium oxide single crystal is a semiconductor single crystal made of  $\alpha$ -gallium oxide ( $\alpha$ - $\text{Ga}_2\text{O}_3$ ) material.  $\alpha$ -Gallium oxide is a direct bandgap wide bandgap oxide semiconductor with a bandgap width of about 4.9 eV and excellent electrical properties, such as high breakdown electric field strength (8 MV/cm) and high ultraviolet transmittance. This makes  $\alpha$ -gallium oxide single crystals have important applications in high power, high voltage resistance, ultraviolet detectors and other fields. Compared with traditional materials such as Si, SiC and GaN,  $\alpha$ -gallium oxide exhibits lower losses when manufacturing ultra-high power components and has stronger voltage resistance. It is one of the key materials for future high-end devices such as high power, high frequency, and high temperature.

Technology-driven and demand growth:  $\alpha$ -Gallium oxide ( $\alpha$ - $\text{Ga}_2\text{O}_3$ ), as the next generation of ultra-wide bandgap semiconductor materials, is expected to achieve breakthroughs in the fields of power electronics and ultraviolet optoelectronic devices with its high-voltage, high-temperature performance and cost advantages. With the surge in demand for high-efficiency devices for new energy vehicles, smart grids and 5G base stations, the global market is expanding rapidly. Japan, the United States and China have accelerated their layout to promote breakthroughs in the mass production of 6-inch wafers and further reduce costs.

Regional competition and industrial chain development: Japan has a first-mover advantage with heteroepitaxial technology from companies such as FLOSFIA, focusing on the consumer electronics and automotive markets; the United States, driven by national defense needs, focuses on the research and development of high-frequency and high-power devices; China promotes the industrialization process through policy support and downstream application markets (such as photovoltaic inverters). However, material defect control and epitaxial process maturity are still the main bottlenecks of the global industrial chain, and cross-field collaboration is needed to improve yield.

Challenges and future opportunities: Although  $\alpha$ -Ga $_{2$ O $_3$  has great potential in performance, its commercialization still faces challenges such as low crystal preparation yield and imperfect device process. If key technical bottlenecks can be overcome in the next 3-5 years,  $\alpha$ -Ga $_{2$ O $_3$  is expected to replace part of SiC and GaN in the medium and high voltage power device market, reshaping the semiconductor industry landscape. At the same time, emerging application areas such as deep ultraviolet detection, aerospace and military industry will provide additional growth momentum for the market.

This report is a detailed and comprehensive analysis for global  $\alpha$ -Gallium Oxide(Ga $_2$ O $_3$ ) Single Crystal 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  $\alpha$ -Gallium Oxide(Ga $_2$ O $_3$ ) Single Crystal market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global  $\alpha$ -Gallium Oxide(Ga $_2$ O $_3$ ) Single Crystal market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global  $\alpha$ -Gallium Oxide(Ga $_2$ O $_3$ ) Single Crystal market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global  $\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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  $\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global  $\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal 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, Atecom Technology, Garen Semi, CETC, Hangzhou Fujia, Beijing MIG, Gao Semi, CSW Xiamen, Evolusia, etc.

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

### **Market Segmentation**

$\alpha$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal market is split by Type and by Application. For the period 2021-2032, 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

2 Inches

4 Inches

6 Inches

Square

Other

## Market segment by Application

Education and Research

Automotive

Others

## Major players covered

Novel Crystal Technology

Kyma Technologies

Atecom Technology

Garen Semi

CETC

Hangzhou Fujia

Beijing MIG

Gao Semi

CSW Xiamen

Evolusia

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  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal, with price, sales quantity, revenue, and global market share of  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal from 2021 to 2026.

Chapter 3, the  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal.

Chapter 14 and 15, to describe  $\gamma$ -Gallium Oxide( $\text{Ga}_2\text{O}_3$ ) Single Crystal sales channel, distributors, customers, research findings and conclusion.

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