

Global Gallium Oxide (Beta-Ga₂O₃) Single Crystals Market Growth 2025-2031

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Abstracts

The global Gallium Oxide (Beta-Ga₂O₃) Single Crystals market size is predicted to grow from US\$ 87.6 million in 2025 to US\$ 445 million in 2031; it is expected to grow at a CAGR of 31.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Gallium Oxide (Beta-Ga₂O₃) Single Crystal is a semiconductor single crystal made of α -gallium oxide (α -Ga₂O₃) material. α -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 α -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, α -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.

Gallium Oxide (Beta-Ga₂O₃) Single Crystal can be divided into several categories: 2 Inches, 4 Inches, 6 Inches, Square and Other. 4 Inches segment account for 55% of the global market share.

Ga₂O₃ Single Crystal Substrate has wide range of applications, such as education and research, automotive and others. Education and Research sector was the most widely used area which took up about 53% of the global market size.

China and Japan are the two largest countries of β -Gallium Oxide (Beta-Ga₂O₃) Single Crystal in the world in the past few years and it will keep increasing in the next few years. These two countries took up about 89.5% of the global market.

Novel Crystal Technology, Garen Semi, Hangzhou Fujia, Beijing MIG, CETC etc. are the key producers in the global β -Gallium Oxide (Ga₂O₃) Single Crystal market.

In recent years, there are more and more β -Gallium Oxide (Ga₂O₃) Single Crystal manufacturers, and the technical reserves have also developed rapidly. In addition to universities and research, corporate users have also begun to use this product, and the whole market is developing rapidly. If there are greater technological breakthroughs in the future, or if there are very good products in downstream epitaxy and device products, the β -Gallium Oxide (Ga₂O₃) Single Crystal industry will experience explosive growth.

LP Information, Inc. (LPI) ' newest research report, the "Gallium Oxide (Beta-Ga₂O₃) Single Crystals Industry Forecast" looks at past sales and reviews total world Gallium Oxide (Beta-Ga₂O₃) Single Crystals sales in 2024, providing a comprehensive analysis by region and market sector of projected Gallium Oxide (Beta-Ga₂O₃) Single Crystals sales for 2025 through 2031. With Gallium Oxide (Beta-Ga₂O₃) Single Crystals sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gallium Oxide (Beta-Ga₂O₃) Single Crystals industry.

This Insight Report provides a comprehensive analysis of the global Gallium Oxide (Beta-Ga₂O₃) Single Crystals landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Gallium Oxide (Beta-Ga₂O₃) Single Crystals portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gallium Oxide (Beta-Ga₂O₃) Single Crystals market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gallium Oxide (Beta-Ga₂O₃) Single Crystals and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly

nuanced view of the current state and future trajectory in the global Gallium Oxide (Beta-Ga₂O₃) Single Crystals.

This report presents a comprehensive overview, market shares, and growth opportunities of Gallium Oxide (Beta-Ga₂O₃) Single Crystals market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

UID

Fe-doping

Sn-doping

Segmentation by Application:

2 Inches

4 Inches

6 Inches

Square

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Novel Crystal Technology

Kyma Technologies

Atecom Technology

Garen Semi

CETC

Hangzhou Fujia

Beijing MIG

Gao Semi

CSW Xiamen

Evolusia

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gallium Oxide (Beta-Ga₂O₃) Single Crystals market?

What factors are driving Gallium Oxide (Beta-Ga₂O₃) Single Crystals market growth, globally and by region?

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

How do Gallium Oxide (Beta-Ga₂O₃) Single Crystals market opportunities vary by end market size?

How does Gallium Oxide (Beta-Ga₂O₃) Single Crystals break out by Type, by Application?

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