

Global High Purity Gallium for Compound Semiconductors 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 High Purity Gallium for Compound Semiconductors market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 212 million by 2032 with a CAGR of 6.1% during review period.

High-purity gallium for compound semiconductors refers to high-purity metallic gallium raw materials used to prepare gallium-containing compound semiconductor materials such as GaAs, and GaN. The purity requirement is usually 6N?7N, i.e., 99.9999%?99.99999%. Some high-end epitaxial, molecular beam epitaxial, optoelectronic, and radio frequency device applications may require higher purity or more stringent impurity spectrum control.

In terms of pricing, China?s gallium market saw significant volatility in 2022. Prices of both industrial-grade gallium and 6N high-purity gallium rose rapidly in the first half of the year and reached a periodic peak around mid-year, before falling sharply due to changes in supply-demand dynamics. In 2023, gallium prices entered a phase of volatile adjustment, with both industrial-grade gallium and 6N high-purity gallium gradually stabilizing amid fluctuations. In 2024, gallium prices generally followed a pattern of initial recovery followed by correction. During the year, prices of industrial-grade gallium and 6N high-purity gallium rose in tandem at one point, but both experienced a periodic pullback in the second half. In 2025, industrial-grade gallium prices generally remained at a low and fluctuating level, while 6N high-purity gallium performed relatively stronger, supported by purification costs, customer qualification requirements, and demand from high-end applications, and showed a certain degree of rebound toward the end of the year.

On the demand side, GaAs demand continues to be supported by RF front-end devices, VCSELs, infrared optoelectronics, and space solar cells. GaN demand is being driven by fast chargers, power adapters, data-center power supplies, automotive power electronics, RF base stations, and defense electronics. Ga₂O₃ remains at an early stage of development, but it represents a longer-term growth opportunity for ultra-wide-bandgap power devices.

On the supply side, high-purity gallium is more constrained by resource availability and policy factors than ordinary electronic materials. Gallium is mainly recovered as a by-product of alumina production and zinc smelting, which limits primary supply elasticity. Since 2023, China's export controls on gallium and germanium-related items have increased overseas customers' focus on safety inventories, supplier diversification, and localized recycling systems.

This report is a detailed and comprehensive analysis for global High Purity Gallium for Compound Semiconductors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Purity 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 High Purity Gallium for Compound Semiconductors market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global High Purity Gallium for Compound Semiconductors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global High Purity Gallium for Compound Semiconductors market size and forecasts, by Purity and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global High Purity Gallium for Compound Semiconductors market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg),

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 High Purity Gallium for Compound Semiconductors

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 High Purity Gallium for Compound Semiconductors 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 Dowa, Indium Corporation, Rasa, 5N Plus, Vital Materials, Beijing Tongmei Xtal Technology Co., Ltd, Wuhan Tuocai, Zhuzhou Keneng New Material Co., Ltd, East Hope, etc.

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

Market Segmentation

High Purity Gallium for Compound Semiconductors market is split by Purity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, 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 Purity

6N

7N

8N

Market segment by Forms

High-purity Gallium Bar

High-purity Gallium Granules

Others

Market segment by Application

GaAs Substrates

GaN Substrates

Others

Major players covered

Dowa

Indium Corporation

Rasa

5N Plus

Vital Materials

Beijing Tongmei Xtal Technology Co., Ltd

Wuhan Tuocai

Zhuzhou Keneng New Material Co., Ltd

East Hope

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 High Purity Gallium for Compound Semiconductors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Purity Gallium for Compound Semiconductors, with price, sales quantity, revenue, and global market share of High Purity Gallium for Compound Semiconductors from 2021 to 2026.

Chapter 3, the High Purity Gallium for Compound Semiconductors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Purity Gallium for Compound Semiconductors 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 Purity and by Application, with sales market share and growth rate by Purity, 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 High Purity Gallium for Compound

Semiconductors market forecast, by regions, by Purity, 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 High Purity Gallium for Compound Semiconductors.

Chapter 14 and 15, to describe High Purity Gallium for Compound Semiconductors sales channel, distributors, customers, research findings and conclusion.

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