

Global High Purity Gallium for Compound Semiconductors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD90A93D4642EN.html>

Date: July 2026

Pages: 100

Price: US\$ 4,480.00 (Single User License)

ID: GD90A93D4642EN

Abstracts

The global High Purity Gallium for Compound Semiconductors market size is expected to reach \$ 212 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

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 studies the global High Purity Gallium for Compound Semiconductors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Gallium for Compound Semiconductors 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 High Purity Gallium for Compound Semiconductors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Purity Gallium for Compound Semiconductors total production and demand, 2021-2032, (Tons)

Global High Purity Gallium for Compound Semiconductors total production value, 2021-2032, (USD Million)

Global High Purity Gallium for Compound Semiconductors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Purity Gallium for Compound Semiconductors consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Purity Gallium for Compound Semiconductors domestic production, consumption, key domestic manufacturers and share

Global High Purity Gallium for Compound Semiconductors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Purity Gallium for Compound Semiconductors production by Purity,

production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Purity Gallium for Compound Semiconductors production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity Gallium for Compound Semiconductors 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Purity Gallium for Compound Semiconductors 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 Purity, 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 High Purity Gallium for Compound Semiconductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Gallium for Compound Semiconductors Market, Segmentation by Purity:

6N

7N

8N

Global High Purity Gallium for Compound Semiconductors Market, Segmentation by Forms:

High-purity Gallium Bar

High-purity Gallium Granules

Others

Global High Purity Gallium for Compound Semiconductors Market, Segmentation by Application:

GaAs Substrates

GaN Substrates

Others

Companies Profiled:

Dowa

Indium Corporation

Rasa

5N Plus

Vital Materials

Beijing Tongmei Xtal Technology Co., Ltd

Wuhan Tuocai

Zhuzhou Keneng New Material Co., Ltd

East Hope

Key Questions Answered:

1. How big is the global High Purity Gallium for Compound Semiconductors market?
2. What is the demand of the global High Purity Gallium for Compound Semiconductors market?
3. What is the year over year growth of the global High Purity Gallium for Compound Semiconductors market?
4. What is the production and production value of the global High Purity Gallium for Compound Semiconductors market?
5. Who are the key producers in the global High Purity Gallium for Compound Semiconductors market?
6. What are the growth factors driving the market demand?

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