

Global High Purity Gallium Metal Market Growth 2026-2032

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Abstracts

The global High Purity Gallium Metal market size is predicted to grow from US\$ 123 million in 2025 to US\$ 206 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Gallium is a light blue metal that turns into a silvery white liquid at 29.76°C. It is mainly associated with bauxite or sphalerite.

With the advancement of metal purification technology, the purity of high-purity metals used in various high-end fields has gradually transitioned from 4N to 5N and 6N, and some application fields have even reached 7N (such as electronic semiconductors). Its purity determines the performance of the application process. The higher the purity, the fewer impurities, and the higher the performance of the material.

Industrial gallium is mainly recovered and extracted from zinc smelting waste residue and aluminum smelting waste residue. Using industrial-grade metal gallium as raw material, it is further purified by electrolysis, vacuum distillation, fractional crystallization, and zone melting to produce high-purity gallium.

High-purity gallium is currently mainly used in the preparation of compound semiconductor materials such as GaN, GaAs, GaP, and GaSb, the doping of semiconductor materials such as silicon and germanium, and the production of alloy materials such as gallium-magnesium alloys.

With the large-scale application of GaN third-generation semiconductors, the quality of semiconductor materials such as GaAs, silicon, and germanium has improved. As an important component, high-purity gallium has put forward higher requirements for its key

performance indicators.

The purity of high-purity gallium used in semiconductors in this article is mainly 6N, 7N and 8N, and gallium compound materials are not counted.

Gallium metal is usually used in the form of GaAs, GaN, Ga₂O₃, industrial gallium, etc., among which industrial gallium is the most important basic product for other products.

The direct application of high-purity gallium metal is mainly to prepare semiconductor materials such as GaAs, GaN, and GaP.

Gallium nitride is widely used in high-speed electronic devices and power electronic devices due to its excellent electron mobility and breakdown electric field strength, such as GaN HEMT, GaN MOSFET, etc.

The continuous expansion and rapid development of the semiconductor market have greatly promoted the demand for high-quality and high-performance raw materials. Among them, high-purity gallium metal, as one of the indispensable key materials in semiconductor manufacturing, has also shown a significant growth trend in demand. With the continuous advancement of semiconductor technology and its increasing application, especially in the rapid development of advanced processes, high-performance chips and emerging fields such as 5G communications, the Internet of Things, artificial intelligence, and new energy vehicles, higher requirements are placed on the purity, stability and reliability of semiconductor materials. Due to its unique physical and chemical properties, high-purity gallium metal plays a vital role in the preparation of semiconductor materials, especially in the synthesis and application of new semiconductor materials such as gallium nitride (GaN), high-purity gallium metal is an indispensable basic raw material. Therefore, the continuous expansion of the semiconductor market has provided a broad market space and development opportunities for the production and application of high-purity gallium metal.

LP Information, Inc. (LPI) ' newest research report, the "High Purity Gallium Metal Industry Forecast" looks at past sales and reviews total world High Purity Gallium Metal sales in 2025, providing a comprehensive analysis by region and market sector of projected High Purity Gallium Metal sales for 2026 through 2032. With High Purity Gallium Metal sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Purity Gallium Metal industry.

This Insight Report provides a comprehensive analysis of the global High Purity Gallium Metal 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 High Purity Gallium Metal portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Purity Gallium Metal market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Purity Gallium Metal and breaks down the forecast by Purity, 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 High Purity Gallium Metal.

This report presents a comprehensive overview, market shares, and growth opportunities of High Purity Gallium Metal market by product type, application, key manufacturers and key regions and countries.

Segmentation by Purity:

6N

7N

8N

Segmentation by Forms:

High-purity Gallium Bar

High-purity Gallium Granules

Others

Segmentation by Application:

GaAs Substrates

GaN Substrates

GaSb Substrates, etc.

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.

DOWA Electronics

Vital Materials

Zhuzhou Keneng New Material

Beijing Tongmei Xtal Technology

East Hope

5N Plus

RASA Industries

Wuhan Xinrong New Materials

Neo Performance Materials

Zhuhai Fangyuan

Changsha Santech Materials

Indium Corporation

Yamanaka Advanced Materials

Wuhan Tuocai

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Purity Gallium Metal market?

What factors are driving High Purity Gallium Metal market growth, globally and by region?

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

How do High Purity Gallium Metal market opportunities vary by end market size?

How does High Purity Gallium Metal break out by Purity, by Application?

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