

Global High Purity Gallium Metal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Purity Gallium Metal 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).

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.

This report studies the global High Purity Gallium Metal production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Purity Gallium Metal total production and demand, 2021-2032, (Kiloton)

Global High Purity Gallium Metal total production value, 2021-2032, (USD Million)

Global High Purity Gallium Metal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global High Purity Gallium Metal consumption by region & country, CAGR, 2021-2032 & (Kiloton)

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

Global High Purity Gallium Metal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global High Purity Gallium Metal production by Purity, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global High Purity Gallium Metal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global High Purity Gallium Metal 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 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, 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 Metal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) 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 Metal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Gallium Metal Market, Segmentation by Purity:

6N

7N

8N

Global High Purity Gallium Metal Market, Segmentation by Forms:

High-purity Gallium Bar

High-purity Gallium Granules

Others

Global High Purity Gallium Metal Market, Segmentation by Application:

GaAs Substrates

GaN Substrates

GaSb Substrates, etc.

Companies Profiled:

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 Answered:

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

Contents

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