

Global Gallium Arsenide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gallium Arsenide market size is expected to reach \$ 658 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Gallium Arsenide is a single-crystal III-V direct-bandgap semiconductor used as a substrate for high-frequency radio front-ends and efficient optoelectronic emitters, outperforming silicon at comparable switching speeds, noise figures, and light emission. Gallium Arsenide's upstream supply depends on purified gallium and arsenic and on crystal-growth routes such as VGF and LEC, followed by slicing, polishing, and epi-ready finishing; leading suppliers publicly offer semi-insulating and conductive variants across 100–200 mm with epi-ready surfaces.

Gallium Arsenide in the current market totals about 66,886 k sq inch of global production with an average selling price near 5.19 USD per sq inch on an EXW basis. Gallium Arsenide shows structurally high value-side concentration, with leading portfolios spanning semi-insulating and larger-diameter classes; notable producers include AXT and Freiberger alongside other tier-one suppliers. Gallium Arsenide demand is anchored in China, North America, Europe, and Japan/Korea within the Indo-Pacific, with semi-insulating 150–200 mm skewed toward RF/MMIC and aerospace-related links, while 4–6-inch conductive wafers underpin VCSEL/LD and legacy LED flows; long customer qualifications and epi-ready surface specs reinforce switching costs and stabilize pricing, particularly for semi-insulating lines.

Gallium Arsenide from 2025 to 2031 is positioned for directional growth driven by rising RF content per device, expanding photonics in 3D sensing and short-reach datacom VCSELs, and continued space links and III-V photovoltaics, with technology upgrades including broader 150 mm adoption in photonics, selective 200 mm semi-insulating

ramps, tighter epi-ready specifications, and yield improvements around VGF. Gallium Arsenide also faces bottlenecks from export-license timing and critical-materials policy: licensing regimes on gallium introduced in 2023 affected cross-border shipments, and while China announced a suspension of certain bans in November 2025, licensing oversight persists—factors that can elongate lead times for high-end wafers. Overall, Gallium Arsenide should see healthy demand growth, with structurally firm pricing for high-end semi-insulating products and stable to mildly deflationary trends for high-volume 4–6-inch conductive lines as yields improve.

This report studies the global Gallium Arsenide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Gallium Arsenide total production and demand, 2021-2032, (K Sq Inches)

Global Gallium Arsenide total production value, 2021-2032, (USD Million)

Global Gallium Arsenide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sq Inches), (based on production site)

Global Gallium Arsenide consumption by region & country, CAGR, 2021-2032 & (K Sq Inches)

U.S. VS China: Gallium Arsenide domestic production, consumption, key domestic manufacturers and share

Global Gallium Arsenide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sq Inches)

Global Gallium Arsenide production by Conduction Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sq Inches)

Global Gallium Arsenide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sq Inches)

This report profiles key players in the global Gallium Arsenide 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 Freiberger Compound Materials, AXT, Sumitomo Electric, Vital Advanced Material, China Crystal Technologies, Yunnan Germanium, DOWA Electronics Materials, Zhejiang Kangpeng Semiconductor, 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 Gallium Arsenide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sq Inches) and average price (US\$/Sq Inches) by manufacturer, by Conduction Type, 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 Gallium Arsenide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gallium Arsenide Market, Segmentation by Conduction Type:

Semi-Insulating

Semi-Conducting (Conductive)

Global Gallium Arsenide Market, Segmentation by Diameter:

6 inch

4 inch

8 inch

Others

Global Gallium Arsenide Market, Segmentation by Growth Method:

VGF

LEC

Others

Global Gallium Arsenide Market, Segmentation by Dopant Type:

Semi-Insulating Undoped (EL2 Compensated)

Semi-Insulating Chromium Doped

N Type Silicon Doped

N Type Tellurium Doped

P Type Zinc Doped

Others

Global Gallium Arsenide Market, Segmentation by Application:

RF

LED

Photonics

Photovoltaic

Companies Profiled:

Freiberger Compound Materials

AXT

Sumitomo Electric

Vital Advanced Material

China Crystal Technologies

Yunnan Germanium

DOWA Electronics Materials

Zhejiang Kangpeng Semiconductor

Key Questions Answered:

1. How big is the global Gallium Arsenide market?

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

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