

Global Gallium Arsenide (GaAs) Wafer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gallium Arsenide (GaAs) Wafer 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 (GaAs) wafers are single-crystal III-V semiconductor substrates that enable high-frequency radio front-ends and efficient optoelectronic emitters; they matter because silicon struggles at the same switching speeds, noise figures, and direct-bandgap light emission GaAs naturally delivers. Upstream, supply hinges on purified gallium and arsenic sources plus VGF/LEC crystal growth, slicing, polishing, and epi-ready finishing; key suppliers publicly list Semi-Insulating and conductive variants across 100–200 mm diameters with epi-ready surfaces. Downstream, GaAs wafers feed RF & Microwave ICs (PAs, LNAs, switches, MMICs), Photonics (VCSELs and laser diodes), LED & Display, Space & Satellite links, III-V photovoltaics, and R&D. Typical procurement combines multi-year qualification with annual frameworks for recurring demand (RF and photonics), while small lots for R&D are one-off. Gross margins are generally in the low-to-mid twenties for mature 4–6-inch conductive lines and higher for Semi-Insulating 150–200 mm products, supported by process know-how, qualification cycles, epi-line compatibility, and sticky customer certifications.

In the current market, global production is around 66,886 k sq inch, with an average selling price of about 5.19 USD per sq inch EXW basis. Industry concentration is structurally high on a value basis: AXT and Freiberger publish the broadest SI and 150–200 mm portfolios. Regional demand is anchored in China, North America, Europe, and Japan/Korea within the Indo-Pacific, with smaller volumes elsewhere; SI at 150–200 mm skews to RF/MMIC and aerospace/defense-related links, whereas 4–6-inch conductive wafers underpin VCSEL/LD and legacy LED. Suppliers emphasize

epi-ready surface specs and long-running customer qualifications, which reinforce switching costs and stabilize pricing, particularly for SI wafers.

Looking to 2025–2031, directional growth is expected from three levers: (1) RF content per device in advanced smartphones, Wi-Fi, and infrastructure; (2) photonics expansion in 3D sensing, short-reach datacom VCSELs, and emerging micro-display stacks; and (3) space links and III-V photovoltaics. Technology upgrades include broader 150 mm adoption in photonics, gradual 200 mm SI ramps at select players, tighter epi-ready specs, and yield improvements around VGF. Key bottlenecks include export-license timing affecting cross-border shipments, capital-intensive crystal growth expansions, and the need to secure high-purity gallium and arsenic streams. On balance, demand growth is healthy but capacity additions remain gated by qualification cycles and capex, implying a structurally firm pricing environment for high-end SI wafers and a stable to mildly deflationary trend for high-volume 4–6-inch conductive lines as yields improve.

This report studies the global Gallium Arsenide (GaAs) Wafer production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Gallium Arsenide (GaAs) Wafer total production and demand, 2021-2032, (K Sq in)

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

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

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

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

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

Global Gallium Arsenide (GaAs) Wafer production by Conduction Type, production,

value, CAGR, 2021-2032, (USD Million) & (K Sq in)

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

This report profiles key players in the global Gallium Arsenide (GaAs) Wafer 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, Inc., Sumitomo Electric Industries, Ltd., Vital Materials, China Crystal Technologies Co., Ltd., Yunnan Germanium Industry, DOWA Electronics Materials Co., Ltd., 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 (GaAs) Wafer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sq in) and average price (US\$/Sq in) 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 (GaAs) Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gallium Arsenide (GaAs) Wafer Market, Segmentation by Conduction Type:

Semi-Insulating

Semi-Conducting (Conductive)

Global Gallium Arsenide (GaAs) Wafer Market, Segmentation by Diameter:

6 inch

4 inch

8 inch

Others

Global Gallium Arsenide (GaAs) Wafer Market, Segmentation by Growth Method:

VGF

LEC

Others

Global Gallium Arsenide (GaAs) Wafer Market, Segmentation by Dopant Type:

Semi-Insulating Undoped

Semi-Insulating Chromium Doped

N Type Silicon Doped

N Type Tellurium Doped

P Type Zinc Doped

Others

Global Gallium Arsenide (GaAs) Wafer Market, Segmentation by Application:

RF

LED

VCSEL

Photovoltaic

Companies Profiled:

Freiberger Compound Materials

AXT, Inc.

Sumitomo Electric Industries, Ltd.

Vital Materials

China Crystal Technologies Co., Ltd.

Yunnan Germanium Industry

DOWA Electronics Materials Co., Ltd.

Zhejiang Kangpeng Semiconductor

Key Questions Answered:

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

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