

Global Single Crystal Gallium Arsenide Wafer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Single Crystal Gallium Arsenide Wafer market size was valued at US\$ 387 million in 2025 and is forecast to a readjusted size of US\$ 658 million by 2032 with a CAGR of 8.0% during review period.

Single Crystal Gallium Arsenide Wafer is a single-crystal III-V semiconductor substrate prepared to serve as the foundational base for epitaxy and device fabrication in high-frequency and optoelectronic applications. As a direct-bandgap material, it enables low noise figures and fast switching while supporting efficient light emission, which differentiates it from mainstream silicon in radio front ends and photon-emitting devices. Upstream, the supply chain spans purification of gallium and arsenic, crystal growth by VGF or LEC, wafer slicing, precision polishing, and preparation to epi-ready surfaces with controlled orientation and defectivity. On the product side, the primary structural division is Semi-Insulating versus semiconducting (conductive) grades, with conductive wafers further identified by dopant systems aligned to n-type or p-type device needs. Diameter is standardized in discrete inches for fab compatibility, and surface finish options such as single-side or double-side polished are tied to epi-ready specifications. Procurement typically follows multi-year qualification and audit cycles with annual frameworks for recurring demand, while small-lot R&D sourcing is one-off. Typical gross margins are around twenty to thirty percent for mature 4- to 6-inch conductive lines and higher for high-spec Semi-Insulating products, sustained by process know-how, extended certification, epi-line compatibility, and sticky customer approvals that raise switching costs.

In the current market, global production is around 66,886 thousand square inches, with an average selling price of about 5.19 USD per square inch EXW basis. On a value

basis, concentration is structurally high because the broadest portfolios in Semi-Insulating grades and larger diameters are clustered among a limited number of qualified suppliers. Demand is anchored in China, North America, Europe, and Japan/Korea within the Indo-Pacific, reflecting the footprint of RF front ends, photonics, and specialist aerospace links. Semi-Insulating wafers at 150?200 mm are aligned to isolation-critical RF/MMIC architectures and certain space-related links, while 4- to 6-inch conductive wafers underpin VCSELs and laser diodes and continue to support legacy LED flows. Across these segments, buyers emphasize epi-ready finish, particle and contamination control, bow/warp stability, and tight electrical specifications; once a supplier?s lots are qualified, relationships tend to remain locked in, reinforcing incumbent positions. On the manufacturing side, VGF and LEC routes coexist: VGF is favored for selected Semi-Insulating targets, while LEC persists where historical process windows and device recipes are established, producing a pragmatic mix rather than a single dominant growth method.

From 2025 to 2031, directional growth is expected from three levers: rising RF content per device across advanced smartphones, Wi-Fi, and infrastructure; expansion of photonics in 3D sensing, short-reach datacom VCSELs, and emerging micro-display stacks; and sustained space links and III-V photovoltaics at the high-performance frontier. Technology shifts include broader 150 mm adoption within photonics lines, selective ramps of 200 mm Semi-Insulating products at qualified suppliers, tighter epi-ready specifications, and incremental yield improvements across crystal growth and finishing. Key bottlenecks remain: export-license timing can influence cross-border shipments and lead times, crystal-growth expansions are capital-intensive and slow to qualify, and steady access to high-purity gallium and arsenic streams is essential for stable output. Taken together, these dynamics imply a firm pricing environment for high-end Semi-Insulating wafers where qualification depth and diameter confer scarcity value, alongside a stable to mildly deflationary trend for high-volume 4- to 6-inch conductive wafers as yield learning and throughput improve. The net result is a market in which scale, proven quality systems, and demonstrated epi compatibility remain decisive advantages, while downstream device cycles determine the cadence of lot releases and inventory corrections.

This report is a detailed and comprehensive analysis for global Single Crystal Gallium Arsenide Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Conduction Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with

market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Single Crystal Gallium Arsenide Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Sq Inches), and average selling prices (US\$/Sq Inches), 2021-2032

Global Single Crystal Gallium Arsenide Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sq Inches), and average selling prices (US\$/Sq Inches), 2021-2032

Global Single Crystal Gallium Arsenide Wafer market size and forecasts, by Conduction Type and by Application, in consumption value (\$ Million), sales quantity (K Sq Inches), and average selling prices (US\$/Sq Inches), 2021-2032

Global Single Crystal Gallium Arsenide Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sq Inches), and ASP (US\$/Sq Inches), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single Crystal Gallium Arsenide Wafer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single Crystal Gallium Arsenide Wafer market based on the following parameters - company overview, sales quantity, revenue, 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 Industries, Vital Materials, China Crystal Tehcnologies, 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.

Market Segmentation

Single Crystal Gallium Arsenide Wafer market is split by Conduction Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Conduction Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Conduction Type

Semi-Insulating

Semi-Conducting (Conductive)

Market segment by Diameter

6 inch

4 inch

8 inch

Others

Market segment by Growth Method

VGF

LEC

Others

Market segment 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

Market segment by Application

RF

LED

VCSEL

PV

Major players covered

Freiberger Compound Materials

AXT

Sumitomo Electric Industries

Vital Materials

China Crystal Tehcnologies

Yunnan Germanium

DOWA Electronics Materials

Zhejiang Kangpeng Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single Crystal Gallium Arsenide Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single Crystal Gallium Arsenide Wafer, with price, sales quantity, revenue, and global market share of Single Crystal Gallium Arsenide Wafer from 2021 to 2026.

Chapter 3, the Single Crystal Gallium Arsenide Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single Crystal Gallium Arsenide Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Conduction Type and by Application, with sales market share and growth rate by Conduction Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Single Crystal Gallium Arsenide Wafer market forecast, by regions, by Conduction Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single Crystal Gallium Arsenide Wafer.

Chapter 14 and 15, to describe Single Crystal Gallium Arsenide Wafer sales channel, distributors, customers, research findings and conclusion.

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