

Global Gallium Arsenide Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Gallium Arsenide market size was valued at USD 298.4 million in 2023 and is forecast to a readjusted size of USD 562.3 million by 2030 with a CAGR of 9.5% during review period.

Gallium arsenide (GaAs) is a compound of the elements gallium and arsenic. It is a III-V direct bandgap semiconductor with a zinc blende crystal structure.

Gallium arsenide is used in the manufacture of devices such as microwave frequency integrated circuits, monolithic microwave integrated circuits, infrared light-emitting diodes, laser diodes, solar cells and optical windows.

Global Gallium Arsenide key players include Freiberger Compound Materials, AXT, Sumitomo Electric, Vital Advanced Material, China Crystal Technologies, etc. Global top five players hold a share about 85%.

Asia-Pacific is the largest market, with a share about 65%, followed by North America and Europe, having a total share about 30 percent.

In terms of product, VGF Grown GaAs is the largest segment, with a share about 63%. And in terms of application, the largest application is RF, followed by LED, Photonics, Photovoltaic.

The Global Info Research report includes an overview of the development of the Gallium Arsenide industry chain, the market status of RF (LEC Grown GaAs, VGF Grown GaAs), LED (LEC Grown GaAs, VGF Grown GaAs), and key enterprises in

developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Gallium Arsenide.

Regionally, the report analyzes the Gallium Arsenide markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Gallium Arsenide market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Gallium Arsenide market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Gallium Arsenide industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Square Inches), revenue generated, and market share of different by Type (e.g., LEC Grown GaAs, VGF Grown GaAs).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Gallium Arsenide market.

Regional Analysis: The report involves examining the Gallium Arsenide market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Gallium Arsenide market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Gallium Arsenide:

Company Analysis: Report covers individual Gallium Arsenide manufacturers, suppliers,

and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Gallium Arsenide. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (RF, LED).

Technology Analysis: Report covers specific technologies relevant to Gallium Arsenide. It assesses the current state, advancements, and potential future developments in Gallium Arsenide areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Gallium Arsenide market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Gallium Arsenide market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

LEC Grown GaAs

VGF Grown GaAs

Others

Market segment by Application

RF

LED

Photonics

Photovoltaic

Major players covered

Freiberger Compound Materials

AXT

Sumitomo Electric

Vital Advanced Material

China Crystal Technologies

Jiachang Technology

Yunnan Germanium

DOWA Electronics Materials

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 Gallium Arsenide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Arsenide, with price, sales, revenue and global market share of Gallium Arsenide from 2019 to 2024.

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

Chapter 4, the Gallium Arsenide breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Gallium Arsenide market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Gallium Arsenide.

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

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