

Global Gallium Arsenide (GaAs) Wafer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Gallium Arsenide (GaAs) Wafer market size was valued at US\$ 313 million in 2024 and is forecast to a readjusted size of USD 542 million by 2031 with a CAGR of 8.2% 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 key players of gallium arsenide (GaAs) wafer include Freiberger Compound Materials, AXT, Inc, Sumitomo Electric Industries, Ltd, Vital Materials, China Crystal Technologies Co., Ltd, H3C SecPath Series and DOWA Electronics Materials Co., Ltd, etc. Top 2 players occupy for a share about 50%. China is the largest market, with a share about 28%, followed by Europe and Japan. In terms of product, VGF method is the largest segment, with a share over 60%. In terms of application, RF is the largest market, with a share over 50%.

This report is a detailed and comprehensive analysis for global Gallium Arsenide (GaAs) Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by 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 Gallium Arsenide (GaAs) Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Sq in), and average selling prices (US\$/Sq in), 2020-2031

Global Gallium Arsenide (GaAs) Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sq in), and average selling prices (US\$/Sq in), 2020-2031

Global Gallium Arsenide (GaAs) Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sq in), and average selling prices (US\$/Sq in), 2020-2031

Global Gallium Arsenide (GaAs) Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sq in), and ASP (US\$/Sq in), 2020-2025

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 Gallium Arsenide (GaAs) 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 Gallium Arsenide (GaAs) 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, Inc., Sumitomo Electric Industries, Ltd., Vital Materials, China Crystal Technologies Co., Ltd., H3C SecPath Series, DOWA Electronics Materials Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Gallium Arsenide (GaAs) Wafer market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by 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 Type

VGF GaAs

LEC GaAs

Other

Market segment by Application

RF

LED

VCSEL

Photovoltaic

Major players covered

Freiberger Compound Materials

AXT, Inc.

Sumitomo Electric Industries, Ltd.

Vital Materials

China Crystal Technologies Co., Ltd.

H3C SecPath Series

DOWA Electronics Materials Co., Ltd.

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 (GaAs) Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Arsenide (GaAs) Wafer, with price, sales quantity, revenue, and global market share of Gallium Arsenide (GaAs) Wafer from 2020 to 2025.

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

Chapter 4, the Gallium Arsenide (GaAs) Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Gallium Arsenide (GaAs) Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 (GaAs) Wafer.

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

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