

Global Gallium Arsenide Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Gallium Arsenide market size will reach 406.25 Million USD in 2025 and is projected to reach 763.39 Million USD by 2032, with a CAGR of 9.43% (2025-2032). Notably, the China Gallium Arsenide market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Gallium arsenide (GaAs) is a compound semiconductor composed of gallium and arsenic. It possesses unique electronic properties that make it valuable for various applications in electronics and optoelectronics. GaAs has a direct bandgap, high electron mobility, and excellent thermal stability, making it particularly suitable for high-frequency and high-speed devices. It is commonly used in the manufacture of electronic components such as diodes, field-effect transistors (FETs), and integrated circuits (ICs). Additionally, GaAs is widely employed in optoelectronic devices like lasers and light-emitting diodes (LEDs) due to its ability to efficiently emit light. The material's properties contribute to its significance in telecommunications, satellite communication systems, radar technology, and other applications where high-performance semiconductors are essential. GaAs has a critical role in advancing technology by enabling the development of efficient and fast electronic devices across a range of industries.

The major global manufacturers of Gallium Arsenide include Freiberger Compound Materials, AXT, Sumitomo Electric, Vital Advanced Material, China Crystal

Technologies, Jiachang Technology, Yunnan Germanium, DOWA Electronics Materials, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Gallium Arsenide. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Gallium Arsenide market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Gallium Arsenide market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Gallium Arsenide industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Gallium Arsenide Include:

Freiberger Compound Materials

AXT

Sumitomo Electric

Vital Advanced Material

China Crystal Technologies

Jiachang Technology

Yunnan Germanium

DOWA Electronics Materials

Gallium Arsenide Product Segment Include:

LEC Grown GaAs

VGF Grown GaAs

Others

Gallium Arsenide Product Application Include:

RF

LED

Photonics

Photovoltaic

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