

# **Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Gallium Arsenide Market 2018, Forecast to 2023**

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## **Abstracts**

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.

### **SCOPE OF THE REPORT:**

This report focuses on the Gallium Arsenide in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

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. In 2015, the global consumption volume of GaAs reached 7975 K Units.

For industry structure analysis, the GaAs industry is highly concentrated. A variety of manufacturers ranging from large multinational corporations to small privately owned companies compete in this industry, but the top six producers account for more than 70% of the market. Regionally, Europe is the biggest production and consumption area of GaAs, also the leader in the whole industry. China and USA also produce large amount of GaAs per year.

Regionally, GaAs suppliers are concentrated in Europe, USA, China, Japan and

Taiwan. Leading suppliers in this industry are Freiberger Compound Materials, AXT, Sumitomo Electric, China Crystal Technologies, Visual Photonics Epitaxy, Shenzhou Crystal Technology.

GaAs can be classified based on its production method. In 2015, VGF Grown GaAs takes 57.46% share of global market, while LEC Grown GaAs takes share of 32.07%. The largest consumption area of GaAs is optoelectronic devices, which accounted for 55.93% of world GaAs consumption in 2015. Before 2013, the largest consumption industry is wireless communication.

The worldwide market for Gallium Arsenide is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Freiberger Compound Materials

AXT

Sumitomo Electric

China Crystal Technologies

Visual Photonics Epitaxy

Shenzhou Crystal Technology

Tianjin Jingming Electronic Materials

Yunnan Germanium

DOWA Electronics Materials

II-VI Incorporated

IQE Taiwan Corporation

Market Segment by Regions, regional analysis covers

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North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

LEC Grown GaAs

VGF Grown GaAs

Others

Market Segment by Applications, can be divided into

Wireless Communication

Optoelectronic Devices

There are 15 Chapters to deeply display the global Gallium Arsenide market.

Chapter 1, to describe Gallium Arsenide Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Gallium Arsenide, with sales, revenue, and price of Gallium Arsenide, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share

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of Gallium Arsenide, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Gallium Arsenide market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Gallium Arsenide sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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