

Global Gallium Arsenide (GaAs) Wafer Market - Forecasts from 2018 to 2023

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Abstracts

Global gallium arsenide (GaAs) wafer market was valued at US\$702.045 million in 2017 and is projected to expand at a CAGR of 13.72% over the forecast period to reach US\$1,518.301 million by 2023. The ability to operate at faster speeds than silicon is driving the demand for GaAs devices across various end-use industries such as communications, aerospace and defense, and electronics which, in turn, is boosting the demand for GaAs Wafers globally. Though high cost of Gallium Arsenide is currently restraining the use of GaAs wafers in electronics, the efficient use of electricity by GaAs as compared to silicon as a substrate can provide an opportunity for GaAs wafers to be used for various applications. Moreover, properties such as better heat and radiation resistance will drive the use of these wafers for military applications, thus positively impacting the global GaAs market growth during the forecast period.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical regions. Further, the overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study have been covered as a part of competitive intelligence done through extensive secondary research. Various studies and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while

conducting the secondary research. Both bottom-up and top down approaches have been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the global Gallium Arsenide (GaAs) wafer market value chain. Last step involves complete market engineering which includes analyzing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting. Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the market.

Major industry players profiled as part of the report are Mitsubishi Chemical, Sumitomo Electric Industries, Wafer Technology Ltd, Freiburger Compound Materials GmbH, AXT Inc., and Semiconductor Wafer Inc. among others.

Segmentation

Global gallium arsenide (GaAs) wafer market has been analyzed through following segments:

By Type

Single Crystal GaAs Wafer

Polycrystalline GaAs Wafer

By Technique

Vertical Gradient Freeze (VGF)

Liquid Encapsulated Czochralski (LEC) Growth

The Bridgman-Stockbarger Technique

By Application

Consumer Electronics

Communication and Technology

Automotive

General Lighting

Aerospace and Defense

By Geography

North America

U.S.

Canada

Mexico

Others

South America

Brazil

Others

Europe

UK

Germany

France

Others

Middle East and Africa

Asia-Pacific

Japan

China

Taiwan

India

Others

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