

Global GaAs Single Crystal Wafers 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 GaAs Single Crystal Wafers market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %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.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

This report is a detailed and comprehensive analysis for global GaAs Single Crystal Wafers 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 GaAs Single Crystal Wafers market size and forecasts, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaAs Single Crystal Wafers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaAs Single Crystal Wafers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaAs Single Crystal Wafers market shares of main players, shipments in revenue (\$ Million), sales quantity (Pieces), and ASP (US\$/Piece), 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 GaAs Single Crystal Wafers

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 GaAs Single Crystal Wafers 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, Wafer World Inc, Sumitomo Electric, Precision Micro-Optics, Wafer Technology, MSE Supplies LLC, Stanford Advanced Materials, DOWA Electronics Materials, MTI Corporation, Nanografi Nano Technology, etc.

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

Market Segmentation

GaAs Single Crystal Wafers 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

2 Inches

3 Inches

4 Inches

6 Inches

Others

Market segment by Application

Microelectronics

Optoelectronics

Major players covered

Freiberger Compound Materials

Wafer World Inc

Sumitomo Electric

Precision Micro-Optics

Wafer Technology

MSE Supplies LLC

Stanford Advanced Materials

DOWA Electronics Materials

MTI Corporation

Nanografi Nano Technology

AXT Inc

Electronics & Materials Corp

Semiconductor Wafer Inc

Xiamen Powerway Advanced Material

Biotain Crystal

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 GaAs Single Crystal Wafers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaAs Single Crystal Wafers, with price, sales quantity, revenue, and global market share of GaAs Single Crystal Wafers from 2020 to 2025.

Chapter 3, the GaAs Single Crystal Wafers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaAs Single Crystal Wafers 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 GaAs Single Crystal Wafers 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 GaAs Single Crystal Wafers.

Chapter 14 and 15, to describe GaAs Single Crystal Wafers sales channel, distributors, customers, research findings and conclusion.

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