

Global GaN and AIN Materials Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GF9F2991C937EN.html>

Date: January 2024

Pages: 103

Price: US\$ 3,480.00 (Single User License)

ID: GF9F2991C937EN

Abstracts

According to our (Global Info Research) latest study, the global GaN and AIN Materials market size was valued at USD 294.3 million in 2023 and is forecast to a readjusted size of USD 490.1 million by 2030 with a CAGR of 7.6% during review period.

Global key players of GaN and AIN Materials include Sumitomo Electric Industries, Ltd., Sumitomo Chemical, Mitsubishi Chemical, Kyma Technologies, HexaTech, etc. The top five players hold a share over 89%. Asia-Pacific is the largest market, has a share about 27%, followed by North America and Europe, with share 27% and 23%, separately. In terms of product type, Single Crystal GaN Substrate is the largest segment, occupied for a share of 95%, and in terms of application, RF Device has a share about 49 percent.

The Global Info Research report includes an overview of the development of the GaN and AIN Materials industry chain, the market status of RF Device (Single Crystal GaN Substrate, Single Crystal AIN Substrate), Power Electronics (Single Crystal GaN Substrate, Single Crystal AIN Substrate), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN and AIN Materials.

Regionally, the report analyzes the GaN and AIN Materials markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global GaN and AIN Materials market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the GaN and AIN Materials market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the GaN and AIN Materials industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Pieces), revenue generated, and market share of different by Type (e.g., Single Crystal GaN Substrate, Single Crystal AIN Substrate).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the GaN and AIN Materials market.

Regional Analysis: The report involves examining the GaN and AIN Materials market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the GaN and AIN Materials market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to GaN and AIN Materials:

Company Analysis: Report covers individual GaN and AIN Materials manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards GaN and AIN Materials This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (RF Device, Power Electronics).

Technology Analysis: Report covers specific technologies relevant to GaN and AlN Materials. It assesses the current state, advancements, and potential future developments in GaN and AlN Materials areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the GaN and AlN Materials market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

GaN and AlN Materials market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Single Crystal GaN Substrate

Single Crystal AlN Substrate

Market segment by Application

RF Device

Power Electronics

MicroLED

UV LED

High Brightness LED

GaN Laser

Major players covered

Sumitomo Electric Industries, Ltd.

Sumitomo Chemical

Mitsubishi Chemical

Kyma Technologies

HexaTech

Sino Nitride Semiconductor

Suzhou Nanowin Science and Technology Co., Ltd

Ultratrend Technologies 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 GaN and AlN Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN and AIN Materials, with price, sales, revenue and global market share of GaN and AIN Materials from 2019 to 2024.

Chapter 3, the GaN and AIN Materials competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN and AIN Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and GaN and AIN Materials market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 GaN and AIN Materials.

Chapter 14 and 15, to describe GaN and AIN Materials sales channel, distributors, customers, research findings and conclusion.

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