

Global Single Crystal AlN Substrate Wafer Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Single Crystal AlN Substrate Wafer market size was valued at USD 3 million in 2022 and is forecast to a readjusted size of USD 20 million by 2029 with a CAGR of 33.1% during review period.

This report studies the AlN substrate/wafer, currently the AlN wafer prepared by the Physical Vapor Transport (PVT) method.

Aluminum nitride (AlN) is an important blue and ultraviolet light-emitting material, which is used in ultraviolet/deep ultraviolet light-emitting diodes, ultraviolet laser diodes, and ultraviolet detectors. In addition, AlN can form a continuous solid solution with III nitrides such as GaN and InN, and its ternary or quaternary alloy can achieve continuous adjustment of its band gap from the visible band to the deep ultraviolet band, making it an important high-performance luminescence material.

AlN (aluminum nitride) single crystal substrate is expected as high efficiency, high frequency electronical device and deep ultraviolet emitting element.

At present, although the AlN single crystal substrate prepared by the PVT method has been commercialized; the AlN substrate price is very high, which hinders its large-scale commercialization. In addition, the AlN single crystal grown by the PVT method is usually yellow or brown, and has poor light transmittance, which is not conducive to the preparation of deep ultraviolet light-emitting devices as a substrate.

Currently the major sizes of AlN wafer are 10mm, 15mm, 20mm, 25 mm, 30mm, 35 mm, 50.8 mm (2') etc. few players have developed the 60mm AlN wafer.

The Global Info Research report includes an overview of the development of the Single Crystal AlN Substrate Wafer industry chain, the market status of UVC LED (Wafer Size: 20mm and Below, Wafer Size: 20mm-50mm), RF Devices (Wafer Size: 20mm and Below, Wafer Size: 20mm-50mm), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Single Crystal AlN Substrate Wafer.

Regionally, the report analyzes the Single Crystal AlN Substrate Wafer 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 Single Crystal AlN Substrate Wafer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Single Crystal AlN Substrate Wafer 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 Single Crystal AlN Substrate Wafer 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 (Units), revenue generated, and market share of different by Wafer Size (e.g., Wafer Size: 20mm and Below, Wafer Size: 20mm-50mm).

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 Single Crystal AlN Substrate Wafer market.

Regional Analysis: The report involves examining the Single Crystal AlN Substrate Wafer 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 Single Crystal AlN Substrate Wafer market. This may

include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Single Crystal AIN Substrate Wafer:

Company Analysis: Report covers individual Single Crystal AIN Substrate Wafer 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 Single Crystal AIN Substrate Wafer. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (UVC LED, RF Devices).

Technology Analysis: Report covers specific technologies relevant to Single Crystal AIN Substrate Wafer. It assesses the current state, advancements, and potential future developments in Single Crystal AIN Substrate Wafer areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Single Crystal AIN Substrate Wafer 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

Single Crystal AIN Substrate Wafer market is split by Wafer Size and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Wafer Size, and by Application in terms of volume and value.

Market segment by Wafer Size

Wafer Size: 20mm and Below

Wafer Size: 20mm-50mm

Wafer Size: 50 and Above

Market segment by Application

UVC LED

RF Devices

Power Devices

Others

Major players covered

HexaTech, Inc

ELECTRONICS AND MATERIALS

Crystal IS

Fraunhofer IISB

Tokuyama

Ultratrend Technologies

Xiamen Powerway (PAM XIAMEN)

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 Single Crystal AIN Substrate Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single Crystal AIN Substrate Wafer, with price, sales, revenue and global market share of Single Crystal AIN Substrate Wafer from 2018 to 2023.

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

Chapter 4, the Single Crystal AIN Substrate Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Wafer Size and application, with sales market share and growth rate by wafer size, application, from 2018 to 2029.

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 2022. and Single Crystal AIN Substrate Wafer market forecast, by regions, wafer size and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single Crystal AIN Substrate Wafer.

Chapter 14 and 15, to describe Single Crystal AlN Substrate Wafer sales channel, distributors, customers, research findings and conclusion.

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