

# Global Single Crystal AlN Substrate Wafer Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Single Crystal AlN Substrate Wafer market size is expected to reach \$ 20 million by 2029, rising at a market growth of 33.1% CAGR during the forecast period (2023-2029).

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.

This report studies the global Single Crystal AIN Substrate Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Crystal AIN Substrate Wafer, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single Crystal AIN Substrate Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Crystal AIN Substrate Wafer total production and demand, 2018-2029, (Units)

Global Single Crystal AIN Substrate Wafer total production value, 2018-2029, (USD Million)

Global Single Crystal AIN Substrate Wafer production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Single Crystal AIN Substrate Wafer consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Single Crystal AIN Substrate Wafer domestic production, consumption, key domestic manufacturers and share

Global Single Crystal AIN Substrate Wafer production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Single Crystal AIN Substrate Wafer production by Wafer Size, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Single Crystal AIN Substrate Wafer production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Single Crystal AIN Substrate Wafer market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HexaTech, Inc, ELECTRONICS AND

MATERIALS, Crystal IS, Fraunhofer IISB, Tokuyama, Ultratrend Technologies and Xiamen Powerway (PAM XIAMEN), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single Crystal AIN Substrate Wafer market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Wafer Size, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Single Crystal AIN Substrate Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Crystal AIN Substrate Wafer Market, Segmentation by Wafer Size

Wafer Size: 20mm and Below

Wafer Size: 20mm-50mm

Wafer Size: 50 and Above

## Global Single Crystal AlN Substrate Wafer Market, Segmentation by Application

UVC LED

RF Devices

Power Devices

Others

## Companies Profiled:

HexaTech, Inc

ELECTRONICS AND MATERIALS

Crystal IS

Fraunhofer IISB

Tokuyama

Ultratrend Technologies

Xiamen Powerway (PAM XIAMEN)

## Key Questions Answered

1. How big is the global Single Crystal AlN Substrate Wafer market?
2. What is the demand of the global Single Crystal AlN Substrate Wafer market?

3. What is the year over year growth of the global Single Crystal AlN Substrate Wafer market?
4. What is the production and production value of the global Single Crystal AlN Substrate Wafer market?
5. Who are the key producers in the global Single Crystal AlN Substrate Wafer market?
6. What are the growth factors driving the market demand?

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