

Global Aluminium Nitride Single Crystal Substrate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminium Nitride Single Crystal Substrate market size is expected to reach \$ 121 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

Aluminum nitride (AlN) is a fourth-generation semiconductor material with a bandgap of up to 6.2eV, which makes AlN an ideal material for preparing optoelectronic devices such as UV LEDs. Its high performance is mainly reflected in high breakdown field strength, high saturated electron drift rate, high thermal stability, high thermal conductivity, and radiation resistance.

Aluminum nitride (AlN) single crystal substrate is a wide bandgap semiconductor material with special properties, and its preparation method is mainly the PVT method. At present, due to some problems of aluminum nitride single crystal itself, such as cost and size, the commercialization process is limited. However, its high thermal conductivity, thermal stability and other properties make aluminum nitride substrate have broad application prospects in semiconductor devices, lasers and other fields.

At present, the core companies of aluminum nitride single crystal substrates in the world are mainly Ultratrend Technologie, HexaTech, Crystal IS (Asahi Kasei) and Nitride Crystals. Among them, the Chinese company Ultratrend Technologie released a 2-inch aluminum nitride single crystal substrate in 2021 and prepared a 3-inch substrate sample at the end of 2022. The aluminum nitride single crystal substrate market is highly concentrated. Due to factors such as cost, demand, and technology, the market size of aluminum nitride single crystal substrates is not very large, and there are very few companies that can develop large sizes (4 inches), and the products are mainly concentrated in 2 inches.

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

This report is a detailed and comprehensive analysis of the world market for Aluminium Nitride Single Crystal Substrate and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aluminium Nitride Single Crystal Substrate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminium Nitride Single Crystal Substrate total production and demand, 2021-2032, (Pcs)

Global Aluminium Nitride Single Crystal Substrate total production value, 2021-2032, (USD Million)

Global Aluminium Nitride Single Crystal Substrate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Pcs), (based on production site)

Global Aluminium Nitride Single Crystal Substrate consumption by region & country, CAGR, 2021-2032 & (Pcs)

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

Global Aluminium Nitride Single Crystal Substrate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Pcs)

Global Aluminium Nitride Single Crystal Substrate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

Global Aluminium Nitride Single Crystal Substrate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

This report profiles key players in the global Aluminium Nitride Single Crystal Substrate 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 Ultratrend Technologies Inc, HexaTech (Stanley Electric), Crystal IS (Asahi Kasei), Nitride Crystals, CETC-46, etc.

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

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Pcs) and average price (USD/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aluminium Nitride Single Crystal Substrate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminium Nitride Single Crystal Substrate Market, Segmentation by Type:

1 Inch

2 Inch

Others

Global Aluminium Nitride Single Crystal Substrate Market, Segmentation by Application:

UVC LED

Optoelectronics, RF and Power Device

Companies Profiled:

Ultratrend Technologies Inc

HexaTech (Stanley Electric)

Crystal IS (Asahi Kasei)

Nitride Crystals

CETC-46

Key Questions Answered:

1. How big is the global Aluminium Nitride Single Crystal Substrate market?
2. What is the demand of the global Aluminium Nitride Single Crystal Substrate market?
3. What is the year over year growth of the global Aluminium Nitride Single Crystal Substrate market?
4. What is the production and production value of the global Aluminium Nitride Single Crystal Substrate market?
5. Who are the key producers in the global Aluminium Nitride Single Crystal Substrate market?
6. What are the growth factors driving the market demand?

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