

Global Aluminium Nitride Single Crystal Substrate Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Aluminium Nitride Single Crystal Substrate market size was valued at US\$ 53.71 million in 2025 and is forecast to a readjusted size of US\$ 110 million by 2032 with a CAGR of 10.9% during review period.

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 is a detailed and comprehensive analysis for global Aluminium Nitride Single Crystal Substrate 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 Aluminium Nitride Single Crystal Substrate market size and forecasts, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (USD/Pcs), 2021-2032

Global Aluminium Nitride Single Crystal Substrate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (USD/Pcs), 2021-2032

Global Aluminium Nitride Single Crystal Substrate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (USD/Pcs), 2021-2032

Global Aluminium Nitride Single Crystal Substrate market shares of main players, shipments in revenue (\$ Million), sales quantity (Pcs), and ASP (USD/Pcs), 2021-2026

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 Aluminium Nitride Single Crystal Substrate
- 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 Aluminium Nitride Single Crystal Substrate 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 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.

Market Segmentation

Aluminium Nitride Single Crystal Substrate market is split by Type and by Application. For the period 2021-2032, 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

1 Inch

2 Inch

Others

Market segment by Application

UVC LED

Optoelectronics, RF and Power Device

Major players covered

Ultratrend Technologies Inc

HexaTech (Stanley Electric)

Crystal IS (Asahi Kasei)

Nitride Crystals

CETC-46

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 Aluminium Nitride Single Crystal Substrate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminium Nitride Single Crystal Substrate, with price, sales quantity, revenue, and global market share of Aluminium Nitride Single Crystal Substrate from 2021 to 2026.

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

Chapter 4, the Aluminium Nitride Single Crystal Substrate breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Aluminium Nitride Single Crystal Substrate market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Aluminium

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

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