

Global Aluminum Nitride Templates Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminum Nitride Templates market size is expected to reach \$ 124 million by 2032, rising at a market growth of 23.0% CAGR during the forecast period (2026-2032).

Aluminum nitride (AlN) templates are single-crystal substrate materials with aluminum nitride single-crystal thin films as the core functional layer, grown on specific substrates (mainly sapphire, SiC, and silicon) through homoepitaxial or heteroepitaxial techniques. They are mainly used to provide high-quality, lattice-matched growth substrates for the epitaxial growth of wide-bandgap semiconductor materials such as gallium nitride (GaN) and aluminum gallium nitride (AlGaN), and are key basic materials for the fabrication of radio frequency devices and UVC-LEDs.

From the supply-side perspective, Aluminum Nitride (AlN) Templates are essentially defined as forming a high-quality, epitaxy-ready AlN thin film layer on a heterogeneous substrate (mostly sapphire, silicon, or silicon carbide). Their core value lies in significantly reducing dislocation density, expanding the epitaxial window and improving yield rates of UVC/deep-ultraviolet AlGaN epitaxy. This effectively optimizes the device efficiency?lifespan?cost trilemma toward a more favorable equilibrium.

The industry is characterized by two key traits: highly diversified technical routes (including HVPE, PVD-based processes, and regrowth/annealing enhancement technologies) coupled with lengthy customer certification cycles. Consequently, the market exhibits a high degree of concentration among leading players?the top 3 global enterprises accounted for over 58% of the market share in 2025.

In terms of mainstream product specifications, 2-inch wafers remain the dominant supply format at present. 4-inch templates have entered a clearer stage of engineering-scale commercialization, while a handful of manufacturers (e.g., SinoVio Semiconductor) have initiated small-batch supply of 6-inch products.

Kyma Technologies offers UV Grade AlN-on-sapphire templates with a clear size range

of 2'x6' (2 inch/100mm/150mm), and emphasizes epi-ready surface quality and thickness-graded supply tailored for UVC LED applications.

DOWA Electronics Materials adopts a more integrated strategy spanning materials/epitaxy/chip manufacturing. It has disclosed that its commercialized AlN templates feature a ~50mm (50.8mm) diameter, with a ~1µm-thick AlN layer deposited on c-plane sapphire substrates.

Ultratrend Optoelectronics Co., Ltd. has publicly announced that its AlN template portfolio covers 2/4/6-inch sapphire-based substrates, while concurrently advancing R&D and production of 4/6-inch silicon-based AlN templates. From a business structure perspective, however, its AlN single-crystal substrates contribute a larger share to overall revenues.

This report studies the global Aluminum Nitride Templates production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminum Nitride Templates 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 Aluminum Nitride Templates that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminum Nitride Templates total production and demand, 2021-2032, (Pieces)

Global Aluminum Nitride Templates total production value, 2021-2032, (USD Million)

Global Aluminum Nitride Templates production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Pieces), (based on production site)

Global Aluminum Nitride Templates consumption by region & country, CAGR, 2021-2032 & (Pieces)

U.S. VS China: Aluminum Nitride Templates domestic production, consumption, key domestic manufacturers and share

Global Aluminum Nitride Templates production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Pieces)

Global Aluminum Nitride Templates production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Pieces)

Global Aluminum Nitride Templates production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Pieces)

This report profiles key players in the global Aluminum Nitride Templates 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 DOWA Electronics Materials, Photon Wave (PW), SCIOCS, Lumigntech, Kyma Technologies, Ultratrend Technologies, Nitride Global, SinoVio Semiconductor, Advanced Ultraviolet Optoelectronics, L&D INC

(Korea), 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 Aluminum Nitride Templates market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Pieces) and average price (US\$/Piece) 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 Aluminum Nitride Templates Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum Nitride Templates Market, Segmentation by Type:

AIN Templates on Sapphire

AIN Templates on Silicon

AIN Templates on SiC

Global Aluminum Nitride Templates Market, Segmentation by Size:

2 Inch

4 Inch

6 Inch

Others

Global Aluminum Nitride Templates Market, Segmentation by Application:

UVC LED

Others

Companies Profiled:

DOWA Electronics Materials

Photon Wave (PW)

SCIOCS

Lumigntech

Kyma Technologies

Ultratrend Technologies

Nitride Global

SinoVio Semiconductor

Advanced Ultraviolet Optoelectronics

L&D INC (Korea)

Key Questions Answered:

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

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