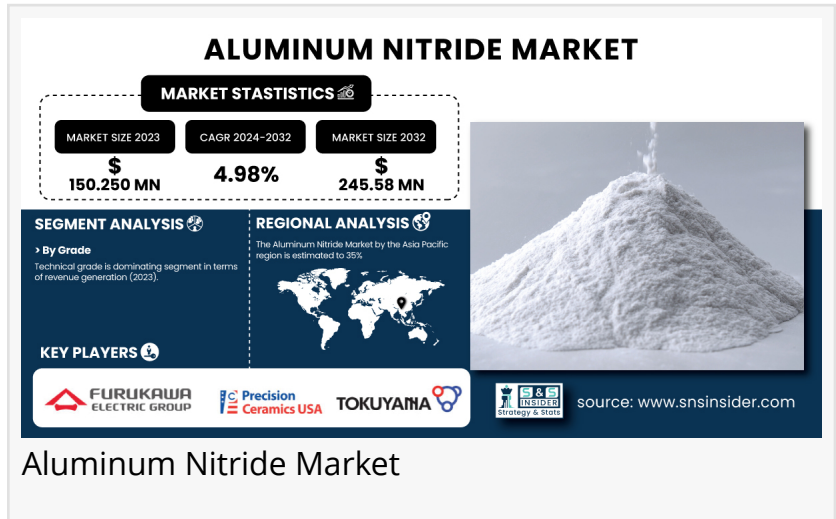


Aluminum Nitride Market Strengthens with Semiconductor and Electronics Growth, Forecasted at USD 245.58 Million by 2032

Aluminum Nitride Market Expands as Demand for High Thermal Conductivity & Electrical Insulation Rises Across Electronics, EVs, and Aerospace Sectors.

AUSTIN, TX, UNITED STATES, February 7, 2025 /EINPresswire.com/ -- The [Aluminum Nitride Market](#) Size was valued at USD 150.25 Million in 2023 and is expected to reach USD 245.58 Million by 2032, growing at a CAGR of 4.98% over the forecast period of 2024-2032.



Increasing demand for aluminum nitride in power electronics and microelectronics is a key driver in the growth of the global aluminum nitride market in terms of revenue. In energy-efficient devices such as LED lights, power modules and semiconductors, it plays a critical role. According to data provided to the European Commission, demand for Aluminum Nitride in electronics will grow 15% annually until 2025, driven by growth in microelectronics, high-performance computing, and defense.

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Key Players:

- FURUKAWA CO., LTD.
- Precision Ceramics USA
- Tokuyama Corporation
- SIENNA TECH
- Thrutek Applied Materials Co. Ltd.
- Ferro Ceramic-Grinding
- Nippon Light Metal Co.,Ltd

- Toyal America, Inc.
- TOYO ALUMINIUM K.K
- Morgan Advanced Materials
- KYOCERA Corporation
- Hexa Tech

Segmental Analysis

By Grade: Technical Grade led the Aluminum Nitride Market in 2023 with a 65% share, driven by its superior thermal conductivity essential for electronic applications. It is widely used in high-power LEDs, power modules, and RF devices. Organizations like the U.S. Department of Energy emphasize its role in energy-efficient electronics, further boosting demand.

By Method: The Carbothermal Reduction Method dominated with a 40% market share in 2023 due to its cost efficiency and scalability. This method allows large-scale production, making it the preferred choice for industries requiring bulk aluminum nitride. Its widespread adoption in semiconductor manufacturing ensures consistent supply, reinforcing its dominance.

By Form: Powder form held the largest share at 40% in 2023, owing to its versatility in electronics and ceramic applications. Aluminum nitride powder is essential in high-performance thermal management systems, including semiconductor packaging and advanced coatings. Its adaptability allows manufacturers to customize products for specific industrial needs, enhancing its market leadership.

By Application: Microelectronics dominated with a 40% share in 2023, driven by increasing demand for efficient thermal management in semiconductor devices. Aluminum nitride is crucial in ICs, microprocessors, and power electronics. The European Commission highlights its role in enhancing chip performance, supporting its widespread adoption in high-power electronic applications.

Region Analysis

Asia Pacific accounted for 35% market share in 2023 and is expected to remain dominant over the forecast period due to a rapid increase in electronics demand in China, Japan, South Korea, and India. Increased aerospace and automobile markets, in conjunction with government support of technological advancements and renewable energy, also add to growth.

With advanced electronics and manufacturing technologies, North America also accounted for a 25% share of the market. Aluminum nitride is expected to perform an important role in future regional development due to its focus on technology and infrastructure highly efficient.

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Recent Highlights

November 2024: Nitride Global Inc. launched enhanced aluminum oxynitride coatings at PSE 24 which provide improved reliability and open additional application opportunities within different industries.

August 2023: Asahi Kasei, through its subsidiary Crystal IS, successfully started the mass production of the world's first 4-inch-diameter aluminum nitride substrate; this will greatly improve UVC LED and semiconductor production, bringing growth opportunities to power and RF devices.

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