

Global Aluminium Nitride Powders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminium Nitride Powders market size is expected to reach \$ 785 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Aluminium Nitride Powder is a high-performance ceramic powder with high thermal conductivity, good electrical insulation, low dielectric loss, high temperature resistance, and a thermal expansion coefficient close to silicon. It is mainly produced through carbothermal reduction nitridation, direct nitridation, or related high-temperature synthesis processes. Compared with alumina and other ceramic fillers, aluminium nitride powder provides better heat dissipation performance while maintaining electrical insulation. It is widely used in ceramic substrates, thermal interface materials, electronic packaging, power modules, LED packaging, semiconductor components, thermally conductive plastics, adhesives, coatings, and advanced ceramic parts. The industrial chain of Aluminium Nitride Powder includes upstream aluminum sources, alumina, carbon sources, nitrogen, ammonia, sintering additives, surface treatment agents, high-temperature furnaces, nitridation equipment, grinding systems, classification equipment, purification systems, surface modification equipment, packaging materials, and testing instruments. The midstream consists of powder manufacturers integrating raw material preparation, nitridation, calcination, grinding, classification, impurity control, particle size control, surface treatment, drying, packaging, and quality inspection into finished aluminium nitride powder products. Downstream applications mainly include ceramic substrates, electronic packaging, thermal interface materials, semiconductor modules, power devices, LED materials, copper clad laminates, thermally conductive plastics, potting compounds, adhesives, coatings, and high-end ceramic components. In 2025, global Aluminium Nitride Powder production reached approximately 15.00 kilotons, with an average global market price of around US\$30,000 per ton. The gross profit margin of major companies in the industry was between 28%-45%. In 2025, the global production

capacity of Aluminium Nitride Powder was approximately 20.00 kilotons.

The Aluminium Nitride Powder market is mainly driven by ceramic substrates, semiconductor packaging, power electronics, LED materials, thermal interface materials, electric vehicle electronics, 5G communication devices, and high-performance thermal management materials. As electronic components require higher heat dissipation efficiency, electrical insulation, low dielectric loss, and long-term reliability, demand for aluminium nitride powder continues to increase. The market benefits from the growth of power modules, high-power chips, advanced ceramic substrates, and thermally conductive polymer composites. Product development is moving toward higher purity, better particle size control, lower oxygen content, improved surface modification, higher thermal conductivity, better sintering activity, and stronger compatibility with polymer and ceramic systems. Overall, the market is expected to grow relatively fast, with stronger demand from semiconductor packaging, electric vehicles, 5G electronics, LED devices, power electronics, and advanced thermal management applications.

This report studies the global Aluminium Nitride Powders production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Aluminium Nitride Powders total production and demand, 2021-2032, (Tons)

Global Aluminium Nitride Powders total production value, 2021-2032, (USD Million)

Global Aluminium Nitride Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Aluminium Nitride Powders consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Aluminium Nitride Powders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Aluminium Nitride Powders production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

Global Aluminium Nitride Powders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Aluminium Nitride Powders 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 Tokuyama Corporation, Toyo Aluminium K.K., Surmet Corporation, H?gan?s AB, Thrutek Applied Materials Co., Ltd., Furukawa Denshi Co., Ltd., MARUWA Co., Ltd., Accumet Materials Co., American Elements Corporation, Xiamen Juci Technology Co., Ltd., 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 Powders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Powders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminium Nitride Powders Market, Segmentation by Type:

Granulated Aluminium Nitride Powders

Spherical Aluminium Nitride Powders

Others

Global Aluminium Nitride Powders Market, Segmentation by Particle Size Range:

Nanometre-Grade Aluminium Nitride Powder: D50 below 0.1 μm

Submicron-Grade Aluminium Nitride Powder: D50 from 0.1 μm to below 1 μm

Fine Micron-Grade Aluminium Nitride Powder: D50 from 1 μm to below 5 μm

Medium Micron-Grade Aluminium Nitride Powder: D50 from 5 μm to below 30 μm

Coarse Thermal-Filler Aluminium Nitride Powder: D50 at least 30 μm

Global Aluminium Nitride Powders Market, Segmentation by Oxygen Content:

Ultra-Low-Oxygen Aluminium Nitride Powder: oxygen below 0.5 wt%

Low-Oxygen Aluminium Nitride Powder: oxygen from 0.5 wt% to below 1.0 wt%

Standard-Oxygen Aluminium Nitride Powder: oxygen from 1.0 wt% to below 2.0 wt%

High-Oxygen Aluminium Nitride Powder: oxygen at least 2.0 wt%

Global Aluminium Nitride Powders Market, Segmentation by Application:

Electronic Packaging Heat Dissipation

Polymer Thermal Conductivity Enhancement

Semiconductor Equipment Plasma-Resistant Insulation

Radio Frequency and Microwave Dielectric Support

Optical and Luminescent Material Matrix

High-Temperature Refractory and Wear-Resistant Components

Companies Profiled:

Tokuyama Corporation

Toyo Aluminium K.K.

Surmet Corporation

Höganäs AB

ThruTek Applied Materials Co., Ltd.

Furukawa Denshi Co., Ltd.

MARUWA Co., Ltd.

Accumet Materials Co.

American Elements Corporation

Xiamen Juci Technology Co., Ltd.

Zhuzhou Ascendus New Materials Technology Co., Ltd.

Chengdu Xuci New Materials Co., Ltd.

Fujian Zingin New Material Technology Co., Ltd.

Fujian Huaqing Electronic Material Technology Co., Ltd.

Jiangsu Sinocera Jinsheng Ceramic Technology Co., Ltd.

Guangzhou Hongwu Material Technology Co., Ltd.

Shanghai Chaowei Nanotechnology Co., Ltd.

Hebei Suoyi New Material Technology Co., Ltd.

SINOAL Group Limited

Zhejiang Yamei Nanotechnology Co., Ltd.

Liaoning Desheng Special Ceramics Manufacturing Co., Ltd.

Key Questions Answered:

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

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