

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

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Abstracts

The global Aluminum Nitride Powder market size is expected to reach \$ 415 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

Aluminum Nitride (AlN) is synthesized from the abundant elements aluminum and nitrogen. It does not occur naturally. AlN is stable in inert atmospheres at temperatures over 2000°C. It exhibits high thermal conductivity, uniquely, a strong dielectric. This unusual combination of properties makes AlN a critical advanced material for many future applications in optics, lighting, electronics and renewable energy. In 2025, global Aluminum Nitride Powder production reached approximately 3418 MT.

Aluminum nitride (AlN) powder demand is primarily driven by the continued rise in heat density across electronics, where designers need materials that can remove heat efficiently while remaining electrically insulating. As power semiconductors move toward higher switching frequencies and higher operating temperatures—especially with wider adoption of SiC and GaN devices—thermal management becomes a limiting factor, and AlN's role as a feedstock for high-thermal-conductivity ceramics is reinforced. This is particularly visible in advanced electronic packaging, where substrates, packages, and submounts must balance thermal performance with reliability under thermal cycling and a close thermal expansion match to silicon-based devices.

A second driver comes from expanding use of AlN in semiconductor-related equipment and specialty components. AlN ceramics made from high-purity powders are used in parts where temperature uniformity, dielectric behavior, and stability under repeated thermal stress matter, supporting demand from wafer-fabrication tool ecosystems and other high-value industrial electronics manufacturing. At the same time, AlN powder is increasingly used as a functional filler in thermally conductive yet electrically insulating

polymer systems—such as thermal interface materials, potting compounds, and encapsulants—because it can raise thermal conductivity without compromising dielectric requirements. Growth in EV power electronics, charging infrastructure, data centers, and high-brightness lighting all contributes to this broader pull-through.

Key market trends include tighter specification requirements and a shift toward engineered powder products. Buyers increasingly emphasize controlled particle-size distributions, low oxygen content, high purity, and consistent sinterability to achieve target thermal conductivity and yield in downstream ceramic processing. As applications diversify, suppliers are expanding portfolios with tailored grades (e.g., different PSDs for tape casting vs. pressing, surface-treated powders for polymer dispersion, and higher-purity grades for electronics and equipment parts). On the supply side, capacity expansions and localization efforts are influenced by strategic semiconductor and electrification investments, while cost competitiveness is affected by energy inputs, process yields, and quality-control intensity—pushing producers to differentiate through both performance consistency and application-support capabilities rather than commodity pricing alone.

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

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

Highlights and key features of the study

Global Aluminum Nitride Powder total production and demand, 2021-2032, (Tons)

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

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

Global Aluminum Nitride Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Aluminum Nitride Powder 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, Accumet Materials, Surmet Corp, Toyo Tokai Aluminium, Toyo Tanso, Maruwa, H?gan?s, Thrutek Applied Materials, Shandong Pengcheng Advanced Ceramics, Desunmet Special Ceramic, 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 Powder market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum Nitride Powder Market, Segmentation by Type:

Carbothermal Reduction and Nitridation Method

Direct Nitridation Method

Global Aluminum Nitride Powder Market, Segmentation by Particle Size:

Ordinary Powder

Ultrafine Powder

Global Aluminum Nitride Powder Market, Segmentation by Channel:

Direct Selling

Distribution

Global Aluminum Nitride Powder Market, Segmentation by Application:

Electrical Component

Thermal Conductive Material

Others

Companies Profiled:

Tokuyama

Accumet Materials

Surmet Corp

Toyo Tokai Aluminium

Toyo Tanso

Maruwa

H?gan?s

ThruTek Applied Materials

Shandong Pengcheng Advanced Ceramics

Desunmet Special Ceramic

Qingzhou Matekechuang Materials

Yantai Tomley Hi-tech Advanced Materials

Xiamen JuCi Technology

Ning Xia Ascendus New Material Technology

Ningxia Qinshi New Materials

Fujian ZINGIN New Material Technology

Shandong Sinocera Functional Material

CHALCO Shandong Advanced Material

Chengdu Xuci New Material

Shanxi Kejiayuan

Zhejinag Yamei Nano Technology

Qinhuangdao ENO High-Tech Material Development

Ya'an Bestry Performance Materials

Suzhou Ginet New Material Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Aluminum Nitride Powder Introduction
- 1.2 World Aluminum Nitride Powder Supply & Forecast
 - 1.2.1 World Aluminum Nitride Powder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aluminum Nitride Powder Production (2021-2032)
 - 1.2.3 World Aluminum Nitride Powder Pricing Trends (2021-2032)
- 1.3 World Aluminum Nitride Powder Production by Region (Based on Production Site)
 - 1.3.1 World Aluminum Nitride Powder Production Value by Region (2021-2032)
 - 1.3.2 World Aluminum Nitride Powder Production by Region (2021-2032)
 - 1.3.3 World Aluminum Nitride Powder Average Price by Region (2021-2032)
 - 1.3.4 North America Aluminum Nitride Powder Production (2021-2032)
 - 1.3.5 Europe Aluminum Nitride Powder Production (2021-2032)
 - 1.3.6 China Aluminum Nitride Powder Production (2021-2032)
 - 1.3.7 Japan Aluminum Nitride Powder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aluminum Nitride Powder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aluminum Nitride Powder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aluminum Nitride Powder Demand (2021-2032)
- 2.2 World Aluminum Nitride Powder Consumption by Region
 - 2.2.1 World Aluminum Nitride Powder Consumption by Region (2021-2026)
 - 2.2.2 World Aluminum Nitride Powder Consumption Forecast by Region (2027-2032)
- 2.3 United States Aluminum Nitride Powder Consumption (2021-2032)
- 2.4 China Aluminum Nitride Powder Consumption (2021-2032)
- 2.5 Europe Aluminum Nitride Powder Consumption (2021-2032)
- 2.6 Japan Aluminum Nitride Powder Consumption (2021-2032)
- 2.7 South Korea Aluminum Nitride Powder Consumption (2021-2032)
- 2.8 ASEAN Aluminum Nitride Powder Consumption (2021-2032)
- 2.9 India Aluminum Nitride Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Aluminum Nitride Powder Production Value by Manufacturer (2021-2026)

- 3.2 World Aluminum Nitride Powder Production by Manufacturer (2021-2026)
- 3.3 World Aluminum Nitride Powder Average Price by Manufacturer (2021-2026)
- 3.4 Aluminum Nitride Powder Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Aluminum Nitride Powder Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Aluminum Nitride Powder in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Aluminum Nitride Powder in 2025
- 3.6 Aluminum Nitride Powder Market: Overall Company Footprint Analysis
 - 3.6.1 Aluminum Nitride Powder Market: Region Footprint
 - 3.6.2 Aluminum Nitride Powder Market: Company Product Type Footprint
 - 3.6.3 Aluminum Nitride Powder Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Aluminum Nitride Powder Production Value Comparison
 - 4.1.1 United States VS China: Aluminum Nitride Powder Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Aluminum Nitride Powder Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Aluminum Nitride Powder Production Comparison
 - 4.2.1 United States VS China: Aluminum Nitride Powder Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Aluminum Nitride Powder Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Aluminum Nitride Powder Consumption Comparison
 - 4.3.1 United States VS China: Aluminum Nitride Powder Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Aluminum Nitride Powder Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Aluminum Nitride Powder Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aluminum Nitride Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aluminum Nitride Powder Production (2021-2026)

4.5 China Based Aluminum Nitride Powder Manufacturers and Market Share

4.5.1 China Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aluminum Nitride Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Aluminum Nitride Powder Production (2021-2026)

4.6 Rest of World Based Aluminum Nitride Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aluminum Nitride Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aluminum Nitride Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aluminum Nitride Powder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Carbothermal Reduction and Nitridation Method

5.2.2 Direct Nitridation Method

5.3 Market Segment by Type

5.3.1 World Aluminum Nitride Powder Production by Type (2021-2032)

5.3.2 World Aluminum Nitride Powder Production Value by Type (2021-2032)

5.3.3 World Aluminum Nitride Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PARTICLE SIZE

6.1 World Aluminum Nitride Powder Market Size Overview by Particle Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Particle Size

6.2.1 Ordinary Powder

6.2.2 Ultrafine Powder

6.3 Market Segment by Particle Size

- 6.3.1 World Aluminum Nitride Powder Production by Particle Size (2021-2032)
- 6.3.2 World Aluminum Nitride Powder Production Value by Particle Size (2021-2032)
- 6.3.3 World Aluminum Nitride Powder Average Price by Particle Size (2021-2032)

7 MARKET ANALYSIS BY CHANNEL

- 7.1 World Aluminum Nitride Powder Market Size Overview by Channel: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Channel
 - 7.2.1 Direct Selling
 - 7.2.2 Distribution
- 7.3 Market Segment by Channel
 - 7.3.1 World Aluminum Nitride Powder Production by Channel (2021-2032)
 - 7.3.2 World Aluminum Nitride Powder Production Value by Channel (2021-2032)
 - 7.3.3 World Aluminum Nitride Powder Average Price by Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Aluminum Nitride Powder Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Electrical Component
 - 8.2.2 Thermal Conductive Material
 - 8.2.3 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Aluminum Nitride Powder Production by Application (2021-2032)
 - 8.3.2 World Aluminum Nitride Powder Production Value by Application (2021-2032)
 - 8.3.3 World Aluminum Nitride Powder Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Tokuyama
 - 9.1.1 Tokuyama Details
 - 9.1.2 Tokuyama Major Business
 - 9.1.3 Tokuyama Aluminum Nitride Powder Product and Services
 - 9.1.4 Tokuyama Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Tokuyama Recent Developments/Updates
 - 9.1.6 Tokuyama Competitive Strengths & Weaknesses

9.2 Accumet Materials

9.2.1 Accumet Materials Details

9.2.2 Accumet Materials Major Business

9.2.3 Accumet Materials Aluminum Nitride Powder Product and Services

9.2.4 Accumet Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Accumet Materials Recent Developments/Updates

9.2.6 Accumet Materials Competitive Strengths & Weaknesses

9.3 Surmet Corp

9.3.1 Surmet Corp Details

9.3.2 Surmet Corp Major Business

9.3.3 Surmet Corp Aluminum Nitride Powder Product and Services

9.3.4 Surmet Corp Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Surmet Corp Recent Developments/Updates

9.3.6 Surmet Corp Competitive Strengths & Weaknesses

9.4 Toyo Tokai Aluminium

9.4.1 Toyo Tokai Aluminium Details

9.4.2 Toyo Tokai Aluminium Major Business

9.4.3 Toyo Tokai Aluminium Aluminum Nitride Powder Product and Services

9.4.4 Toyo Tokai Aluminium Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Toyo Tokai Aluminium Recent Developments/Updates

9.4.6 Toyo Tokai Aluminium Competitive Strengths & Weaknesses

9.5 Toyo Tanso

9.5.1 Toyo Tanso Details

9.5.2 Toyo Tanso Major Business

9.5.3 Toyo Tanso Aluminum Nitride Powder Product and Services

9.5.4 Toyo Tanso Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Toyo Tanso Recent Developments/Updates

9.5.6 Toyo Tanso Competitive Strengths & Weaknesses

9.6 Maruwa

9.6.1 Maruwa Details

9.6.2 Maruwa Major Business

9.6.3 Maruwa Aluminum Nitride Powder Product and Services

9.6.4 Maruwa Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Maruwa Recent Developments/Updates

- 9.6.6 Maruwa Competitive Strengths & Weaknesses
- 9.7 H?gan?s
 - 9.7.1 H?gan?s Details
 - 9.7.2 H?gan?s Major Business
 - 9.7.3 H?gan?s Aluminum Nitride Powder Product and Services
 - 9.7.4 H?gan?s Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 H?gan?s Recent Developments/Updates
 - 9.7.6 H?gan?s Competitive Strengths & Weaknesses
- 9.8 Thrutek Applied Materials
 - 9.8.1 Thrutek Applied Materials Details
 - 9.8.2 Thrutek Applied Materials Major Business
 - 9.8.3 Thrutek Applied Materials Aluminum Nitride Powder Product and Services
 - 9.8.4 Thrutek Applied Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Thrutek Applied Materials Recent Developments/Updates
 - 9.8.6 Thrutek Applied Materials Competitive Strengths & Weaknesses
- 9.9 Shandong Pengcheng Advanced Ceramics
 - 9.9.1 Shandong Pengcheng Advanced Ceramics Details
 - 9.9.2 Shandong Pengcheng Advanced Ceramics Major Business
 - 9.9.3 Shandong Pengcheng Advanced Ceramics Aluminum Nitride Powder Product and Services
 - 9.9.4 Shandong Pengcheng Advanced Ceramics Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Shandong Pengcheng Advanced Ceramics Recent Developments/Updates
 - 9.9.6 Shandong Pengcheng Advanced Ceramics Competitive Strengths & Weaknesses
- 9.10 Desunmet Special Ceramic
 - 9.10.1 Desunmet Special Ceramic Details
 - 9.10.2 Desunmet Special Ceramic Major Business
 - 9.10.3 Desunmet Special Ceramic Aluminum Nitride Powder Product and Services
 - 9.10.4 Desunmet Special Ceramic Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Desunmet Special Ceramic Recent Developments/Updates
 - 9.10.6 Desunmet Special Ceramic Competitive Strengths & Weaknesses
- 9.11 Qingzhou Matekechuang Materials
 - 9.11.1 Qingzhou Matekechuang Materials Details
 - 9.11.2 Qingzhou Matekechuang Materials Major Business
 - 9.11.3 Qingzhou Matekechuang Materials Aluminum Nitride Powder Product and

Services

9.11.4 Qingzhou Matekechuang Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Qingzhou Matekechuang Materials Recent Developments/Updates

9.11.6 Qingzhou Matekechuang Materials Competitive Strengths & Weaknesses

9.12 Yantai Tomley Hi-tech Advanced Materials

9.12.1 Yantai Tomley Hi-tech Advanced Materials Details

9.12.2 Yantai Tomley Hi-tech Advanced Materials Major Business

9.12.3 Yantai Tomley Hi-tech Advanced Materials Aluminum Nitride Powder Product and Services

9.12.4 Yantai Tomley Hi-tech Advanced Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Yantai Tomley Hi-tech Advanced Materials Recent Developments/Updates

9.12.6 Yantai Tomley Hi-tech Advanced Materials Competitive Strengths & Weaknesses

9.13 Xiamen JuCi Technology

9.13.1 Xiamen JuCi Technology Details

9.13.2 Xiamen JuCi Technology Major Business

9.13.3 Xiamen JuCi Technology Aluminum Nitride Powder Product and Services

9.13.4 Xiamen JuCi Technology Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Xiamen JuCi Technology Recent Developments/Updates

9.13.6 Xiamen JuCi Technology Competitive Strengths & Weaknesses

9.14 Ning Xia Ascendus New Material Technology

9.14.1 Ning Xia Ascendus New Material Technology Details

9.14.2 Ning Xia Ascendus New Material Technology Major Business

9.14.3 Ning Xia Ascendus New Material Technology Aluminum Nitride Powder Product and Services

9.14.4 Ning Xia Ascendus New Material Technology Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Ning Xia Ascendus New Material Technology Recent Developments/Updates

9.14.6 Ning Xia Ascendus New Material Technology Competitive Strengths & Weaknesses

9.15 Ningxia Qinshi New Materials

9.15.1 Ningxia Qinshi New Materials Details

9.15.2 Ningxia Qinshi New Materials Major Business

9.15.3 Ningxia Qinshi New Materials Aluminum Nitride Powder Product and Services

9.15.4 Ningxia Qinshi New Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.15.5 Ningxia Qinshi New Materials Recent Developments/Updates
- 9.15.6 Ningxia Qinshi New Materials Competitive Strengths & Weaknesses
- 9.16 Fujian ZINGIN New Material Technology
 - 9.16.1 Fujian ZINGIN New Material Technology Details
 - 9.16.2 Fujian ZINGIN New Material Technology Major Business
 - 9.16.3 Fujian ZINGIN New Material Technology Aluminum Nitride Powder Product and Services
 - 9.16.4 Fujian ZINGIN New Material Technology Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Fujian ZINGIN New Material Technology Recent Developments/Updates
 - 9.16.6 Fujian ZINGIN New Material Technology Competitive Strengths & Weaknesses
- 9.17 Shandong Sinocera Functional Material
 - 9.17.1 Shandong Sinocera Functional Material Details
 - 9.17.2 Shandong Sinocera Functional Material Major Business
 - 9.17.3 Shandong Sinocera Functional Material Aluminum Nitride Powder Product and Services
 - 9.17.4 Shandong Sinocera Functional Material Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Shandong Sinocera Functional Material Recent Developments/Updates
 - 9.17.6 Shandong Sinocera Functional Material Competitive Strengths & Weaknesses
- 9.18 CHALCO Shandong Advanced Material
 - 9.18.1 CHALCO Shandong Advanced Material Details
 - 9.18.2 CHALCO Shandong Advanced Material Major Business
 - 9.18.3 CHALCO Shandong Advanced Material Aluminum Nitride Powder Product and Services
 - 9.18.4 CHALCO Shandong Advanced Material Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 CHALCO Shandong Advanced Material Recent Developments/Updates
 - 9.18.6 CHALCO Shandong Advanced Material Competitive Strengths & Weaknesses
- 9.19 Chengdu Xuci New Material
 - 9.19.1 Chengdu Xuci New Material Details
 - 9.19.2 Chengdu Xuci New Material Major Business
 - 9.19.3 Chengdu Xuci New Material Aluminum Nitride Powder Product and Services
 - 9.19.4 Chengdu Xuci New Material Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Chengdu Xuci New Material Recent Developments/Updates
 - 9.19.6 Chengdu Xuci New Material Competitive Strengths & Weaknesses
- 9.20 Shanxi Kejiayuan
 - 9.20.1 Shanxi Kejiayuan Details

- 9.20.2 Shanxi Kejiayuan Major Business
- 9.20.3 Shanxi Kejiayuan Aluminum Nitride Powder Product and Services
- 9.20.4 Shanxi Kejiayuan Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 Shanxi Kejiayuan Recent Developments/Updates
- 9.20.6 Shanxi Kejiayuan Competitive Strengths & Weaknesses
- 9.21 Zhejinag Yamei Nano Technology
 - 9.21.1 Zhejinag Yamei Nano Technology Details
 - 9.21.2 Zhejinag Yamei Nano Technology Major Business
 - 9.21.3 Zhejinag Yamei Nano Technology Aluminum Nitride Powder Product and Services
 - 9.21.4 Zhejinag Yamei Nano Technology Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Zhejinag Yamei Nano Technology Recent Developments/Updates
 - 9.21.6 Zhejinag Yamei Nano Technology Competitive Strengths & Weaknesses
- 9.22 Qinhuangdao ENO High-Tech Material Development
 - 9.22.1 Qinhuangdao ENO High-Tech Material Development Details
 - 9.22.2 Qinhuangdao ENO High-Tech Material Development Major Business
 - 9.22.3 Qinhuangdao ENO High-Tech Material Development Aluminum Nitride Powder Product and Services
 - 9.22.4 Qinhuangdao ENO High-Tech Material Development Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Qinhuangdao ENO High-Tech Material Development Recent Developments/Updates
 - 9.22.6 Qinhuangdao ENO High-Tech Material Development Competitive Strengths & Weaknesses
- 9.23 Ya'an Bstry Performance Materials
 - 9.23.1 Ya'an Bstry Performance Materials Details
 - 9.23.2 Ya'an Bstry Performance Materials Major Business
 - 9.23.3 Ya'an Bstry Performance Materials Aluminum Nitride Powder Product and Services
 - 9.23.4 Ya'an Bstry Performance Materials Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Ya'an Bstry Performance Materials Recent Developments/Updates
 - 9.23.6 Ya'an Bstry Performance Materials Competitive Strengths & Weaknesses
- 9.24 Suzhou Ginet New Material Technology
 - 9.24.1 Suzhou Ginet New Material Technology Details
 - 9.24.2 Suzhou Ginet New Material Technology Major Business
 - 9.24.3 Suzhou Ginet New Material Technology Aluminum Nitride Powder Product and

Services

9.24.4 Suzhou Ginet New Material Technology Aluminum Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Suzhou Ginet New Material Technology Recent Developments/Updates

9.24.6 Suzhou Ginet New Material Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Aluminum Nitride Powder Industry Chain

10.2 Aluminum Nitride Powder Upstream Analysis

10.2.1 Aluminum Nitride Powder Core Raw Materials

10.2.2 Main Manufacturers of Aluminum Nitride Powder Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Aluminum Nitride Powder Production Mode

10.6 Aluminum Nitride Powder Procurement Model

10.7 Aluminum Nitride Powder Industry Sales Model and Sales Channels

10.7.1 Aluminum Nitride Powder Sales Model

10.7.2 Aluminum Nitride Powder Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Aluminum Nitride Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Aluminum Nitride Powder Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Aluminum Nitride Powder Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Aluminum Nitride Powder Production Value Market Share by Region (2021-2026)
- Table 5. World Aluminum Nitride Powder Production Value Market Share by Region (2027-2032)
- Table 6. World Aluminum Nitride Powder Production by Region (2021-2026) & (Tons)
- Table 7. World Aluminum Nitride Powder Production by Region (2027-2032) & (Tons)
- Table 8. World Aluminum Nitride Powder Production Market Share by Region (2021-2026)
- Table 9. World Aluminum Nitride Powder Production Market Share by Region (2027-2032)
- Table 10. World Aluminum Nitride Powder Average Price by Region (2021-2026) & (US\$/kg)
- Table 11. World Aluminum Nitride Powder Average Price by Region (2027-2032) & (US\$/kg)
- Table 12. Aluminum Nitride Powder Major Market Trends
- Table 13. World Aluminum Nitride Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Aluminum Nitride Powder Consumption by Region (2021-2026) & (Tons)
- Table 15. World Aluminum Nitride Powder Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Aluminum Nitride Powder Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Aluminum Nitride Powder Producers in 2025
- Table 18. World Aluminum Nitride Powder Production by Manufacturer (2021-2026) & (Tons)
- Table 19. Production Market Share of Key Aluminum Nitride Powder Producers in 2025
- Table 20. World Aluminum Nitride Powder Average Price by Manufacturer (2021-2026)

& (US\$/kg)

Table 21. Global Aluminum Nitride Powder Company Evaluation Quadrant

Table 22. World Aluminum Nitride Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aluminum Nitride Powder Production Site of Key Manufacturer

Table 24. Aluminum Nitride Powder Market: Company Product Type Footprint

Table 25. Aluminum Nitride Powder Market: Company Product Application Footprint

Table 26. Aluminum Nitride Powder Competitive Factors

Table 27. Aluminum Nitride Powder New Entrant and Capacity Expansion Plans

Table 28. Aluminum Nitride Powder Mergers & Acquisitions Activity

Table 29. United States VS China Aluminum Nitride Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aluminum Nitride Powder Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Aluminum Nitride Powder Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aluminum Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aluminum Nitride Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aluminum Nitride Powder Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Aluminum Nitride Powder Production Market Share (2021-2026)

Table 37. China Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aluminum Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aluminum Nitride Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aluminum Nitride Powder Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Aluminum Nitride Powder Production Market Share (2021-2026)

Table 42. Rest of World Based Aluminum Nitride Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aluminum Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aluminum Nitride Powder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aluminum Nitride Powder Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Aluminum Nitride Powder Production Market Share (2021-2026)

Table 47. World Aluminum Nitride Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aluminum Nitride Powder Production by Type (2021-2026) & (Tons)

Table 49. World Aluminum Nitride Powder Production by Type (2027-2032) & (Tons)

Table 50. World Aluminum Nitride Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aluminum Nitride Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aluminum Nitride Powder Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Aluminum Nitride Powder Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Aluminum Nitride Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Table 55. World Aluminum Nitride Powder Production by Particle Size (2021-2026) & (Tons)

Table 56. World Aluminum Nitride Powder Production by Particle Size (2027-2032) & (Tons)

Table 57. World Aluminum Nitride Powder Production Value by Particle Size (2021-2026) & (USD Million)

Table 58. World Aluminum Nitride Powder Production Value by Particle Size (2027-2032) & (USD Million)

Table 59. World Aluminum Nitride Powder Average Price by Particle Size (2021-2026) & (US\$/kg)

Table 60. World Aluminum Nitride Powder Average Price by Particle Size (2027-2032) & (US\$/kg)

Table 61. World Aluminum Nitride Powder Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Aluminum Nitride Powder Production by Channel (2021-2026) & (Tons)

Table 63. World Aluminum Nitride Powder Production by Channel (2027-2032) & (Tons)

Table 64. World Aluminum Nitride Powder Production Value by Channel (2021-2026) &

(USD Million)

Table 65. World Aluminum Nitride Powder Production Value by Channel (2027-2032) & (USD Million)

Table 66. World Aluminum Nitride Powder Average Price by Channel (2021-2026) & (US\$/kg)

Table 67. World Aluminum Nitride Powder Average Price by Channel (2027-2032) & (US\$/kg)

Table 68. World Aluminum Nitride Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Aluminum Nitride Powder Production by Application (2021-2026) & (Tons)

Table 70. World Aluminum Nitride Powder Production by Application (2027-2032) & (Tons)

Table 71. World Aluminum Nitride Powder Production Value by Application (2021-2026) & (USD Million)

Table 72. World Aluminum Nitride Powder Production Value by Application (2027-2032) & (USD Million)

Table 73. World Aluminum Nitride Powder Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Aluminum Nitride Powder Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Tokuyama Basic Information, Manufacturing Base and Competitors

Table 76. Tokuyama Major Business

Table 77. Tokuyama Aluminum Nitride Powder Product and Services

Table 78. Tokuyama Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Tokuyama Recent Developments/Updates

Table 80. Tokuyama Competitive Strengths & Weaknesses

Table 81. Accumet Materials Basic Information, Manufacturing Base and Competitors

Table 82. Accumet Materials Major Business

Table 83. Accumet Materials Aluminum Nitride Powder Product and Services

Table 84. Accumet Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Accumet Materials Recent Developments/Updates

Table 86. Accumet Materials Competitive Strengths & Weaknesses

Table 87. Surmet Corp Basic Information, Manufacturing Base and Competitors

Table 88. Surmet Corp Major Business

Table 89. Surmet Corp Aluminum Nitride Powder Product and Services

Table 90. Surmet Corp Aluminum Nitride Powder Production (Tons), Price (US\$/kg),

- Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Surmet Corp Recent Developments/Updates
- Table 92. Surmet Corp Competitive Strengths & Weaknesses
- Table 93. Toyo Tokai Aluminium Basic Information, Manufacturing Base and Competitors
- Table 94. Toyo Tokai Aluminium Major Business
- Table 95. Toyo Tokai Aluminium Aluminum Nitride Powder Product and Services
- Table 96. Toyo Tokai Aluminium Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Toyo Tokai Aluminium Recent Developments/Updates
- Table 98. Toyo Tokai Aluminium Competitive Strengths & Weaknesses
- Table 99. Toyo Tanso Basic Information, Manufacturing Base and Competitors
- Table 100. Toyo Tanso Major Business
- Table 101. Toyo Tanso Aluminum Nitride Powder Product and Services
- Table 102. Toyo Tanso Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Toyo Tanso Recent Developments/Updates
- Table 104. Toyo Tanso Competitive Strengths & Weaknesses
- Table 105. Maruwa Basic Information, Manufacturing Base and Competitors
- Table 106. Maruwa Major Business
- Table 107. Maruwa Aluminum Nitride Powder Product and Services
- Table 108. Maruwa Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Maruwa Recent Developments/Updates
- Table 110. Maruwa Competitive Strengths & Weaknesses
- Table 111. H?gan?s Basic Information, Manufacturing Base and Competitors
- Table 112. H?gan?s Major Business
- Table 113. H?gan?s Aluminum Nitride Powder Product and Services
- Table 114. H?gan?s Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. H?gan?s Recent Developments/Updates
- Table 116. H?gan?s Competitive Strengths & Weaknesses
- Table 117. ThruTek Applied Materials Basic Information, Manufacturing Base and Competitors
- Table 118. ThruTek Applied Materials Major Business
- Table 119. ThruTek Applied Materials Aluminum Nitride Powder Product and Services
- Table 120. ThruTek Applied Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. ThruTek Applied Materials Recent Developments/Updates

- Table 122. ThruTek Applied Materials Competitive Strengths & Weaknesses
- Table 123. Shandong Pengcheng Advanced Ceramics Basic Information, Manufacturing Base and Competitors
- Table 124. Shandong Pengcheng Advanced Ceramics Major Business
- Table 125. Shandong Pengcheng Advanced Ceramics Aluminum Nitride Powder Product and Services
- Table 126. Shandong Pengcheng Advanced Ceramics Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Shandong Pengcheng Advanced Ceramics Recent Developments/Updates
- Table 128. Shandong Pengcheng Advanced Ceramics Competitive Strengths & Weaknesses
- Table 129. Desunmet Special Ceramic Basic Information, Manufacturing Base and Competitors
- Table 130. Desunmet Special Ceramic Major Business
- Table 131. Desunmet Special Ceramic Aluminum Nitride Powder Product and Services
- Table 132. Desunmet Special Ceramic Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Desunmet Special Ceramic Recent Developments/Updates
- Table 134. Desunmet Special Ceramic Competitive Strengths & Weaknesses
- Table 135. Qingzhou Matekechuang Materials Basic Information, Manufacturing Base and Competitors
- Table 136. Qingzhou Matekechuang Materials Major Business
- Table 137. Qingzhou Matekechuang Materials Aluminum Nitride Powder Product and Services
- Table 138. Qingzhou Matekechuang Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Qingzhou Matekechuang Materials Recent Developments/Updates
- Table 140. Qingzhou Matekechuang Materials Competitive Strengths & Weaknesses
- Table 141. Yantai Tomley Hi-tech Advanced Materials Basic Information, Manufacturing Base and Competitors
- Table 142. Yantai Tomley Hi-tech Advanced Materials Major Business
- Table 143. Yantai Tomley Hi-tech Advanced Materials Aluminum Nitride Powder Product and Services
- Table 144. Yantai Tomley Hi-tech Advanced Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Yantai Tomley Hi-tech Advanced Materials Recent Developments/Updates

Table 146. Yantai Tomley Hi-tech Advanced Materials Competitive Strengths & Weaknesses

Table 147. Xiamen JuCi Technology Basic Information, Manufacturing Base and Competitors

Table 148. Xiamen JuCi Technology Major Business

Table 149. Xiamen JuCi Technology Aluminum Nitride Powder Product and Services

Table 150. Xiamen JuCi Technology Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Xiamen JuCi Technology Recent Developments/Updates

Table 152. Xiamen JuCi Technology Competitive Strengths & Weaknesses

Table 153. Ning Xia Ascendus New Material Technology Basic Information, Manufacturing Base and Competitors

Table 154. Ning Xia Ascendus New Material Technology Major Business

Table 155. Ning Xia Ascendus New Material Technology Aluminum Nitride Powder Product and Services

Table 156. Ning Xia Ascendus New Material Technology Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Ning Xia Ascendus New Material Technology Recent Developments/Updates

Table 158. Ning Xia Ascendus New Material Technology Competitive Strengths & Weaknesses

Table 159. Ningxia Qinshi New Materials Basic Information, Manufacturing Base and Competitors

Table 160. Ningxia Qinshi New Materials Major Business

Table 161. Ningxia Qinshi New Materials Aluminum Nitride Powder Product and Services

Table 162. Ningxia Qinshi New Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Ningxia Qinshi New Materials Recent Developments/Updates

Table 164. Ningxia Qinshi New Materials Competitive Strengths & Weaknesses

Table 165. Fujian ZINGIN New Material Technology Basic Information, Manufacturing Base and Competitors

Table 166. Fujian ZINGIN New Material Technology Major Business

Table 167. Fujian ZINGIN New Material Technology Aluminum Nitride Powder Product and Services

Table 168. Fujian ZINGIN New Material Technology Aluminum Nitride Powder

Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Fujian ZINGIN New Material Technology Recent Developments/Updates

Table 170. Fujian ZINGIN New Material Technology Competitive Strengths & Weaknesses

Table 171. Shandong Sinocera Functional Material Basic Information, Manufacturing Base and Competitors

Table 172. Shandong Sinocera Functional Material Major Business

Table 173. Shandong Sinocera Functional Material Aluminum Nitride Powder Product and Services

Table 174. Shandong Sinocera Functional Material Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Shandong Sinocera Functional Material Recent Developments/Updates

Table 176. Shandong Sinocera Functional Material Competitive Strengths & Weaknesses

Table 177. CHALCO Shandong Advanced Material Basic Information, Manufacturing Base and Competitors

Table 178. CHALCO Shandong Advanced Material Major Business

Table 179. CHALCO Shandong Advanced Material Aluminum Nitride Powder Product and Services

Table 180. CHALCO Shandong Advanced Material Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. CHALCO Shandong Advanced Material Recent Developments/Updates

Table 182. CHALCO Shandong Advanced Material Competitive Strengths & Weaknesses

Table 183. Chengdu Xuci New Material Basic Information, Manufacturing Base and Competitors

Table 184. Chengdu Xuci New Material Major Business

Table 185. Chengdu Xuci New Material Aluminum Nitride Powder Product and Services

Table 186. Chengdu Xuci New Material Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Chengdu Xuci New Material Recent Developments/Updates

Table 188. Chengdu Xuci New Material Competitive Strengths & Weaknesses

Table 189. Shanxi Kejiayuan Basic Information, Manufacturing Base and Competitors

Table 190. Shanxi Kejiayuan Major Business

Table 191. Shanxi Kejiayuan Aluminum Nitride Powder Product and Services

Table 192. Shanxi Kejiayuan Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Shanxi Kejiayuan Recent Developments/Updates

Table 194. Shanxi Kejiayuan Competitive Strengths & Weaknesses

Table 195. Zhejinag Yamei Nano Technology Basic Information, Manufacturing Base and Competitors

Table 196. Zhejinag Yamei Nano Technology Major Business

Table 197. Zhejinag Yamei Nano Technology Aluminum Nitride Powder Product and Services

Table 198. Zhejinag Yamei Nano Technology Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Zhejinag Yamei Nano Technology Recent Developments/Updates

Table 200. Zhejinag Yamei Nano Technology Competitive Strengths & Weaknesses

Table 201. Qinhuangdao ENO High-Tech Material Development Basic Information, Manufacturing Base and Competitors

Table 202. Qinhuangdao ENO High-Tech Material Development Major Business

Table 203. Qinhuangdao ENO High-Tech Material Development Aluminum Nitride Powder Product and Services

Table 204. Qinhuangdao ENO High-Tech Material Development Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Qinhuangdao ENO High-Tech Material Development Recent Developments/Updates

Table 206. Qinhuangdao ENO High-Tech Material Development Competitive Strengths & Weaknesses

Table 207. Ya'an Bstry Performance Materials Basic Information, Manufacturing Base and Competitors

Table 208. Ya'an Bstry Performance Materials Major Business

Table 209. Ya'an Bstry Performance Materials Aluminum Nitride Powder Product and Services

Table 210. Ya'an Bstry Performance Materials Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Ya'an Bstry Performance Materials Recent Developments/Updates

Table 212. Ya'an Bstry Performance Materials Competitive Strengths & Weaknesses

Table 213. Suzhou Ginet New Material Technology Basic Information, Manufacturing Base and Competitors

Table 214. Suzhou Ginet New Material Technology Major Business

Table 215. Suzhou Ginet New Material Technology Aluminum Nitride Powder Product and Services

Table 216. Suzhou Ginet New Material Technology Aluminum Nitride Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Suzhou Ginet New Material Technology Recent Developments/Updates

Table 218. Suzhou Ginet New Material Technology Competitive Strengths & Weaknesses

Table 219. Global Key Players of Aluminum Nitride Powder Upstream (Raw Materials)

Table 220. Global Aluminum Nitride Powder Typical Customers

Table 221. Aluminum Nitride Powder Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Aluminum Nitride Powder Picture
- Figure 2. World Aluminum Nitride Powder Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Aluminum Nitride Powder Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Aluminum Nitride Powder Production (2021-2032) & (Tons)
- Figure 5. World Aluminum Nitride Powder Average Price (2021-2032) & (US\$/kg)
- Figure 6. World Aluminum Nitride Powder Production Value Market Share by Region (2021-2032)
- Figure 7. World Aluminum Nitride Powder Production Market Share by Region (2021-2032)
- Figure 8. North America Aluminum Nitride Powder Production (2021-2032) & (Tons)
- Figure 9. Europe Aluminum Nitride Powder Production (2021-2032) & (Tons)
- Figure 10. China Aluminum Nitride Powder Production (2021-2032) & (Tons)
- Figure 11. Japan Aluminum Nitride Powder Production (2021-2032) & (Tons)
- Figure 12. Aluminum Nitride Powder Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 15. World Aluminum Nitride Powder Consumption Market Share by Region (2021-2032)
- Figure 16. United States Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 17. China Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 18. Europe Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 19. Japan Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 21. ASEAN Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 22. India Aluminum Nitride Powder Consumption (2021-2032) & (Tons)
- Figure 23. Producer Shipments of Aluminum Nitride Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Aluminum Nitride Powder Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Aluminum Nitride Powder Markets in 2025
- Figure 26. United States VS China: Aluminum Nitride Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Aluminum Nitride Powder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Aluminum Nitride Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Aluminum Nitride Powder Production Market Share 2025

Figure 30. China Based Manufacturers Aluminum Nitride Powder Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Aluminum Nitride Powder Production Market Share 2025

Figure 32. World Aluminum Nitride Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Aluminum Nitride Powder Production Value Market Share by Type in 2025

Figure 34. Carbothermal Reduction and Nitridation Method

Figure 35. Direct Nitridation Method

Figure 36. World Aluminum Nitride Powder Production Market Share by Type (2021-2032)

Figure 37. World Aluminum Nitride Powder Production Value Market Share by Type (2021-2032)

Figure 38. World Aluminum Nitride Powder Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World Aluminum Nitride Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Figure 40. World Aluminum Nitride Powder Production Value Market Share by Particle Size in 2025

Figure 41. Ordinary Powder

Figure 42. Ultrafine Powder

Figure 43. World Aluminum Nitride Powder Production Market Share by Particle Size (2021-2032)

Figure 44. World Aluminum Nitride Powder Production Value Market Share by Particle Size (2021-2032)

Figure 45. World Aluminum Nitride Powder Average Price by Particle Size (2021-2032) & (US\$/kg)

Figure 46. World Aluminum Nitride Powder Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Figure 47. World Aluminum Nitride Powder Production Value Market Share by Channel in 2025

Figure 48. Direct Selling

Figure 49. Distribution

Figure 50. World Aluminum Nitride Powder Production Market Share by Channel (2021-2032)

Figure 51. World Aluminum Nitride Powder Production Value Market Share by Channel (2021-2032)

Figure 52. World Aluminum Nitride Powder Average Price by Channel (2021-2032) & (US\$/kg)

Figure 53. World Aluminum Nitride Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Aluminum Nitride Powder Production Value Market Share by Application in 2025

Figure 55. Electrical Component

Figure 56. Thermal Conductive Material

Figure 57. Others

Figure 58. World Aluminum Nitride Powder Production Market Share by Application (2021-2032)

Figure 59. World Aluminum Nitride Powder Production Value Market Share by Application (2021-2032)

Figure 60. World Aluminum Nitride Powder Average Price by Application (2021-2032) & (US\$/kg)

Figure 61. Aluminum Nitride Powder Industry Chain

Figure 62. Aluminum Nitride Powder Procurement Model

Figure 63. Aluminum Nitride Powder Sales Model

Figure 64. Aluminum Nitride Powder Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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