

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

<https://marketpublishers.com/r/G31EB4067506EN.html>

Date: December 2025

Pages: 101

Price: US\$ 4,480.00 (Single User License)

ID: G31EB4067506EN

Abstracts

The global Nitrogen Atomized Aluminum Powder market size is expected to reach \$ 370 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Nitrogen-atomized aluminum powder is a fine aluminum powder formed by atomizing molten aluminum with high-pressure nitrogen and then cooling it. It is characterized by high sphericity, good purity, strong flowability, and controllable particle size. It is mainly used in high-tech fields such as the preparation of aluminum paste for solar cell backplanes, aluminum pigments, metal powder coatings, and powder metallurgy products. Simply put, it involves using nitrogen to atomize molten aluminum into small droplets, which are then rapidly cooled into spherical particles, resulting in a finer powder compared to traditional methods.

In 2025, global production of nitrogen atomized aluminum powder reached 350 k tons, with an average selling price of US\$754 per ton. Production capacity was approximately 450,000 tons, and the industry's gross profit margin was approximately 10%-20%. Cost structure: Direct materials accounted for approximately 75%, manufacturing costs approximately 20%, and labor costs approximately 5%. Industry chain: Upstream consists of raw materials such as molten aluminum and aluminum ingots; downstream applications include aluminum pigments, refractory materials, powder metallurgy, and photovoltaics.

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

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

Highlights and key features of the study

Global Nitrogen Atomized Aluminum Powder total production and demand, 2021-2032, (Kilotons)

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

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

Global Nitrogen Atomized Aluminum Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

Global Nitrogen Atomized Aluminum Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Nitrogen Atomized Aluminum Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Nitrogen Atomized Aluminum 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 Alcoa, Kymera International, Toyal, Hunan Goldsky Aluminum Industry High-tech, Angang Group Aluminium Powder, Henan Yuanyang Powder Technology, Inner Mongolia Xuyang New Materials, Hunan Jinhao New Material Technology, Hunan Goldhorse Aluminum Industry, Gaizhou Heli Aluminum Powder, 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 Nitrogen Atomized Aluminum Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Nitrogen Atomized Aluminum Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitrogen Atomized Aluminum Powder Market, Segmentation by Type:

Particle Size D50

Particle Size D50 5-20 ?m

Particle Size D50 20-30 ?m

Particle Size D50 > 30 ?m

Global Nitrogen Atomized Aluminum Powder Market, Segmentation by Content:

Activated Aluminum >98%

Activated Aluminum >99%

Global Nitrogen Atomized Aluminum Powder Market, Segmentation by Application:

Aluminum Pigments

Refractory Materials

Chemicals

Powder Metallurgy

Photovoltaics

Others

Companies Profiled:

Alcoa

Kymera International

Toyal

Hunan Goldsky Aluminum Industry High-tech

Angang Group Aluminium Powder

Henan Yuanyang Powder Technology

Inner Mongolia Xuyang New Materials

Hunan Jinhao New Material Technology

Hunan Goldhorse Aluminum Industry

Gaizhou Heli Aluminum Powder

Key Questions Answered:

1. How big is the global Nitrogen Atomized Aluminum Powder market?
2. What is the demand of the global Nitrogen Atomized Aluminum Powder market?
3. What is the year over year growth of the global Nitrogen Atomized Aluminum Powder market?
4. What is the production and production value of the global Nitrogen Atomized Aluminum Powder market?

5. Who are the key producers in the global Nitrogen Atomized Aluminum Powder market?
6. What are the growth factors driving the market demand?

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