

Global Nitrogen Atomized Aluminum Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nitrogen Atomized Aluminum Powder market size was valued at US\$ 272 million in 2025 and is forecast to a readjusted size of US\$ 370 million by 2032 with a CAGR of 4.7% during review period.

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 is a detailed and comprehensive analysis for global Nitrogen Atomized Aluminum Powder market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nitrogen Atomized Aluminum Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitrogen Atomized Aluminum Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitrogen Atomized Aluminum Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitrogen Atomized Aluminum Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nitrogen Atomized Aluminum Powder

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nitrogen Atomized Aluminum Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Alcoa, Kymera International,

Toyol, 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.

Market Segmentation

Nitrogen Atomized Aluminum Powder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Particle Size D50
- Particle Size D50 5-20 ?m
- Particle Size D50 20-30 ?m
- Particle Size D50 > 30 ?m

Market segment by Content

- Activated Aluminum >98%
- Activated Aluminum >99%

Market segment by Application

- Aluminum Pigments
- Refractory Materials

Chemicals

Powder Metallurgy

Photovoltaics

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nitrogen Atomized Aluminum Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen Atomized Aluminum Powder, with price, sales quantity, revenue, and global market share of Nitrogen Atomized Aluminum Powder from 2021 to 2026.

Chapter 3, the Nitrogen Atomized Aluminum Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen Atomized Aluminum Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nitrogen Atomized Aluminum Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nitrogen Atomized Aluminum Powder.

Chapter 14 and 15, to describe Nitrogen Atomized Aluminum Powder sales channel,

distributors, customers, research findings and conclusion.

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