

Global Aluminum-26 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminum-26 market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

In 2025, global Aluminum-26 production was approximately 164 grams, with a global average market price of around \$39,000 per gram. That year, total global production capacity for Aluminum-26 reached approximately 320 grams. The average gross profit margin for the industry is approximately 71%. Aluminum-26 is a radioactive isotope of aluminum with an atomic number of 13; its nucleus contains 13 protons and 13 neutrons, resulting in a mass number of 26. Unlike the naturally occurring stable isotope aluminum-27 (^{27}Al), aluminum-26 is radioactive. It decays into stable magnesium-26 (^{26}Mg) primarily through positron emission (β^+ decay) or electron capture, with a half-life of approximately 720,000 years (about 7.17×10^5 years). Due to its long half-life and unique cosmic origins, aluminum-26 is considered a crucial radionuclide for studying solar system formation, meteorite dating, cosmic nucleosynthesis, and geological evolution.

Aluminum-26 is an extremely rare radioactive isotope found in nature only in trace amounts; it is primarily a cosmogenic nuclide produced when cosmic rays bombard atmospheric argon or siliceous rocks. For industrial and scientific applications, aluminum-26 is typically produced artificially. Common production methods involve using high-energy proton beams to bombard target materials—such as potassium chloride or silicon—to induce spallation reactions. Following production in a particle accelerator, high-purity products are obtained through chemical separation, ion exchange, and purification techniques. Because production requires large-scale accelerator facilities, high-energy beam systems, and complex radiochemical separation processes, few institutions worldwide possess the capability for stable supply; these are

primarily national laboratories and isotope production centers. The mid-stream sector encompasses irradiation production, radiochemical processing, isotope purification, activity measurement, and packaging/supply. Although aluminum-26 has a long half-life, it remains significantly radioactive compared to stable isotopes; consequently, production focuses on meeting high-value, small-batch demands for scientific research rather than mass manufacturing. Suppliers generally require particle accelerator facilities, radiochemical experimental platforms, and high-precision isotope mass spectrometry capabilities. Currently, Aluminum-26 is primarily supplied at the microcurie (μCi) or nanocurie (nCi) level for use in accelerator mass spectrometry (AMS) research, nuclear physics experiments, cosmic-ray studies, and the analysis of geoscientific samples. Downstream applications are concentrated in high-end scientific research fields, including cosmology, astrophysics, meteorite analysis, geochronology, and nuclear science. In space science, scientists study stellar nucleosynthesis in the Milky Way and analyze the formation environment of the early solar system by detecting the characteristic gamma rays (approximately 1.809 MeV) emitted during Aluminum-26 decay. In the geosciences, Aluminum-26—often in conjunction with cosmogenic nuclides such as Beryllium-10—is used to investigate rock exposure ages, glacial movement, sedimentation processes, and the history of surface erosion. Additionally, Aluminum-26 is utilized in basic research within nuclear medicine and environmental chemistry; however, due to extremely low production yields and high costs, a large-scale commercial market has not yet developed.

The primary driver for the development of the Aluminum-26 (Al-26) industry is the growing demand for research in space science and Earth science. With a half-life of approximately 720,000 years and the emission of characteristic gamma rays upon decay, Al-26 has long been utilized to study stellar evolution in the Milky Way, the early formation of the solar system, and the evolution of radionuclides in meteorites. Furthermore, when used in conjunction with other cosmogenic nuclides like Beryllium-10 (Be-10), Al-26 facilitates research into rock exposure ages, glacial movement, surface erosion rates, and changes in sedimentary environments, thereby driving the demand for high-sensitivity isotope analysis technologies. As investment in deep-space exploration, planetary science, and geochronology increases, the demand from research institutions for high-purity Al-26 samples and associated testing services continues to grow steadily.

Due to the extremely low natural abundance of Al-26, traditional radioactive counting methods struggle to meet detection requirements; however, Accelerator Mass Spectrometry (AMS) enables high-precision measurement at ultra-low concentrations, establishing Al-26 as a key subject for long-lived radioisotope analysis. Currently, AMS

is widely applied to the detection of ultra-low abundance nuclides such as Al-26, Be-10, and Carbon-14 (C-14), deepening the application of Al-26 in fields including geochemistry, environmental science, biological tracing, and nuclear science. Looking ahead, advancements in high-energy accelerators, ion source optimization, and detection sensitivity are expected to further enhance the efficiency of Al-26 sample preparation and analytical capabilities.

The future development of the Al-26 industry will be characterized by the deepening of high-end scientific applications, small-batch customized supply, and upgrades in production technology. Given that Al-26 production relies on high-energy particle accelerators, radiochemical separation, and high-precision detection equipment, the industry is unlikely to adopt a large-scale industrial production model; instead, it will maintain a supply structure dominated by national laboratories, research institutions, and specialized isotope suppliers. Competition will shift from a focus on mere output volume to a focus on isotope purity, specific activity control, delivery stability, and the enhancement of supporting analytical service capabilities.

Report Scope

This report studies the global Aluminum-26 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminum-26 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-26 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminum-26 total production and demand, 2021-2032, (Gram)

Global Aluminum-26 total production value, 2021-2032, (USD Million)

Global Aluminum-26 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Aluminum-26 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Aluminum-26 domestic production, consumption, key domestic manufacturers and share

Global Aluminum-26 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Aluminum-26 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Aluminum-26 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Aluminum-26 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 NIDC(DOE IP), LANL(Los Alamos National Lab), RITVERC JSC, 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-26 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Gram) and average price (US\$/g) 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-26 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum-26 Market, Segmentation by Type:

Activity Concentration?10mCi/μL

Activity Concentration?10mCi/μL

Global Aluminum-26 Market, Segmentation by Production Reaction Route:

Proton Bombardment

Spallation Reaction

Neutron Irradiation in a Nuclear Reactor

Global Aluminum-26 Market, Segmentation by Product Form:

Aluminum-26 Solution

Solid Aluminum-26 Compound

Global Aluminum-26 Market, Segmentation by Purity Grade:

Ultra-high purity Aluminum-26

High-purity Aluminum-26

Global Aluminum-26 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

LANL(Los Alamos National Lab)

RITVERC JSC

Key Questions Answered:

1. How big is the global Aluminum-26 market?
2. What is the demand of the global Aluminum-26 market?
3. What is the year over year growth of the global Aluminum-26 market?
4. What is the production and production value of the global Aluminum-26 market?
5. Who are the key producers in the global Aluminum-26 market?
6. What are the growth factors driving the market demand?

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