

Global Magnesium-28 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnesium-28 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 Magnesium-28 production was approximately 106 grams, with the global average market price equating to roughly \$43,000 per gram. That year, total global production capacity for Magnesium-28 reached approximately 280 grams, and the industry's average gross profit margin was around 39%. Magnesium-28 (Mg-28) is an artificial radioisotope of magnesium with an atomic number of 12 and a mass number of 28. It has a half-life of approximately 20.9 hours and primarily decays via beta-minus (β^-) emission into aluminum-28 (Al-28), which subsequently decays into stable silicon-28 (Si-28). During decay, Mg-28 emits beta particles and characteristic gamma rays, enabling detection through methods such as radioactivity counting, gamma-ray spectroscopy, or tracer imaging. Because its chemical properties are essentially identical to those of natural magnesium, Mg-28 is primarily used as a radioactive tracer to study the absorption, transport, exchange, and metabolism of magnesium in human, animal, plant, and soil systems. Typical applications include the study of intestinal magnesium absorption, magnesium turnover in bone and muscle, renal excretion, magnesium uptake by plant roots, and magnesium migration within leaves and chloroplasts.

The upstream segment of the Mg-28 industry chain primarily encompasses nuclear reaction targets, research reactors or particle accelerators, irradiation target stations, hot cells, radiation shielding systems, and radiochemical separation consumables. Historically, Mg-28 has been produced mainly through nuclear reactions in research reactors; some production routes involve irradiating aluminum, silicon, or magnesium targets with neutrons or charged particles, followed by the separation of Mg-28 from the

bulk target material and co-produced radionuclides. Charged-particle reaction routes—such as those using aluminum targets—can also be explored using cyclotrons. Early U.S. nuclear chemistry literature indicates that Mg-28 used for tracer applications relied heavily on reactor-based production, and the IAEA production manual documents various nuclear reaction routes for Mg-28. Key technical challenges in the upstream sector include low production yields, a half-life of less than one day, the presence of significant radioactive impurities (such as sodium and aluminum), and the requirement for rapid separation processes; furthermore, target preparation, irradiation scheduling, and remote handling capabilities directly impact the final usable radioactivity. The midstream segment of the supply chain primarily comprises national laboratories, university nuclear chemistry facilities, agricultural isotope laboratories, and medical radioactive tracer laboratories. These entities are responsible for dissolving irradiated target materials and isolating Magnesium-28 (Mg-28) via ion exchange, precipitation, solvent extraction, or chromatography, subsequently preparing it as magnesium chloride, magnesium sulfate, or other tracer solutions suitable for experimental use. Midstream quality control typically encompasses nuclide identity, radionuclidic purity, chemical purity, specific activity, pH, activity concentration, and stability; for applications involving human or animal subjects, sterility, endotoxin levels, and dosage must also be controlled. As Mg-28 decays into Aluminum-28 (Al-28), experimental procedures require distinguishing between the signals of the parent (Mg-28) and daughter (Al-28) isotopes and applying corrections based on decay time. Mg-28 has been utilized in the form of chloride salts for studies on human intestinal absorption and magnesium balance, as well as for labeling dietary and nutritional samples to determine the bioavailability of magnesium from various food sources. The downstream segment includes nutrition research institutions, hospital metabolic research centers, nephrology and bone metabolism laboratories, animal nutrition agencies, plant science institutes, and agricultural research organizations. In medicine and nutrition, Mg-28 is used to measure gastrointestinal magnesium absorption rates, rates of magnesium exchange within the body, urinary and fecal excretion, and magnesium metabolism under conditions of renal dysfunction; it has also been employed in studies involving healthy individuals, patients with chronic renal impairment, and those with kidney stones. In agriculture and plant science, Mg-28 enables the tracking of root uptake, xylem transport, leaf distribution, and magnesium utilization within chloroplasts, facilitating research into magnesium deficiency, nutrient competition, and fertilizer use efficiency; recent plant studies continue to utilize Mg-28 tracing to characterize magnesium ion uptake in *Arabidopsis* roots.

Research into plant mineral nutrition and high-efficiency agriculture serves as a primary driver for the continued demand for Magnesium-28 (Mg-28). Magnesium is a crucial

component of chlorophyll and plays a vital role in photosynthesis, enzyme activation, phosphorylation, and carbohydrate transport within plants. Mg-28 exhibits chemical behavior virtually identical to that of natural magnesium while allowing for the tracking of its uptake and translocation—within roots, stems, leaves, and chloroplasts—via radiometric measurement; consequently, it is well-suited for studying magnesium deficiency, ion competition, rhizosphere nutrient uptake, and fertilizer use efficiency. As research into precision fertilization, crop nutritional diagnosis, and stress physiology deepens, Mg-28 retains unique value for plant ion transport experiments requiring high temporal resolution. However, demand stems primarily from universities, agricultural research institutions, and large-scale isotope research facilities, meaning the market scale is unlikely to expand as rapidly as that of conventional fertilizers or medical isotopes. The IAEA continues to include Mg-28 in its frameworks for plant nutrition and radiotracer research.

Research into life sciences and nutritional metabolism constitutes another potential driver, though applications will remain highly specialized. Magnesium is involved in neuromuscular function, skeletal metabolism, energy metabolism, and various enzymatic processes; abnormalities in magnesium absorption and internal distribution are closely linked to studies on nutritional status, renal excretion, and bone metabolism. Mg-28 can be used to measure gastrointestinal magnesium absorption, blood clearance, tissue exchange, and excretion processes, offering high detection sensitivity in traditional tracer studies. Future applications are likely to focus on novel magnesium supplements, bioavailability assessments, magnesium metabolism in specific populations, and animal nutrition research, rather than evolving into products for routine clinical diagnosis. Since stable isotopes such as Mg-25 and Mg-26—combined with non-radioactive techniques like ICP-MS—can meet a significant portion of research needs, the development of Mg-28 depends largely on its ability to provide additional insights into dynamic, short-term, and trace-level transport processes that stable isotopes cannot capture.

Mg-28 has a half-life of approximately 20.9 hours. Traditional production requires the use of accelerator beams, specific target materials, and hot-cell facilities, alongside the completion of separation, quality control, and delivery within a short timeframe, resulting in high per-batch costs. The U.S. National Isotope Development Center continues to list Magnesium-28 in its product catalog and supplies it on demand as an acidic magnesium chloride solution; this indicates that while there is a foundation for supplying the radionuclide for research purposes, it is not yet a standard stock item.

Report Scope

This report studies the global Magnesium-28 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium-28 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 Magnesium-28 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnesium-28 total production and demand, 2021-2032, (Gram)

Global Magnesium-28 total production value, 2021-2032, (USD Million)

Global Magnesium-28 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Magnesium-28 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Magnesium-28 domestic production, consumption, key domestic manufacturers and share

Global Magnesium-28 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Magnesium-28 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Magnesium-28 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Magnesium-28 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), Eckert & Ziegler, Rosatom, 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 Magnesium-28 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 Magnesium-28 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Magnesium-28 Market, Segmentation by Type:

Specific Activity: >30 Ci/g

Specific Activity: ≤30 Ci/g

Global Magnesium-28 Market, Segmentation by Product Form:

Magnesium-28 Solution

Magnesium-28 Labeled Nutritional Preparation

Magnesium-28 Irradiation Target

Global Magnesium-28 Market, Segmentation by Production Method:

High-energy Proton Spallation

Charged-particle Reactions using Dedicated Targets

Reactor Neutron Irradiation

Global Magnesium-28 Market, Segmentation by Quality Grade:

Research-grade Radionuclide

Preclinical Drug-grade Radionuclide

Global Magnesium-28 Market, Segmentation by Application:

Nuclear Medicine

Environmental Research

Others

Companies Profiled:

NIDC(DOE IP)

Eckert & Ziegler

Rosatom

Key Questions Answered

1. How big is the global Magnesium-28 market?
2. What is the demand of the global Magnesium-28 market?
3. What is the year over year growth of the global Magnesium-28 market?
4. What is the total value of the global Magnesium-28 market?
5. Who are the Major Players in the global Magnesium-28 market?
6. What are the growth factors driving the market demand?

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