

Global Strontium-82 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Strontium-82 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 Strontium-82 production was approximately 57 grams, with an average global market price of around \$73,000 per gram. Total global production capacity for Strontium-82 reached approximately 120 grams that year. The average gross profit margin for the industry is approximately 66%. Strontium-82 (Sr-82) is an artificial radioactive isotope—specifically a radionuclide of the element strontium—with an atomic number of 38 and a mass number of 82. Rather than being a radiopharmaceutical used directly in clinical applications, Sr-82 serves as a crucial parent radionuclide for the production of Rubidium-82 (Rb-82), a positron-emitting radionuclide. Sr-82 decays into Rb-82 via electron capture; while Sr-82 has a half-life of approximately 25.36 days, Rb-82 has a half-life of only about 75 seconds. Consequently, Sr-82 is typically loaded into specialized generators (Sr-82/Rb-82 generators) to facilitate the continuous production of Rb-82. Because Rb-82 emits positrons, it is utilized in positron emission tomography (PET) for myocardial perfusion imaging, making Sr-82 a vital medical isotope for diagnosing cardiovascular diseases in the field of nuclear medicine. Compared to traditional nuclear medicine isotopes like Technetium-99m (Tc-99m), the Sr-82/Rb-82 system offers advantages such as eliminating the need for on-site cyclotron production and enabling rapid PET examinations, thereby holding significant clinical value in cardiovascular diagnostic imaging.

The upstream segment of the Sr-82 industry chain primarily encompasses the supply of target materials, high-energy particle accelerator facilities, and radiochemical production systems. As there are no naturally occurring, exploitable sources of Sr-82, commercial supply relies on artificial production. The prevailing production method involves

bombarding enriched Molybdenum-82 (Mo-82) targets with high-energy proton beams to generate Sr-82 through nuclear reactions; the product then undergoes chemical separation, purification, and quality testing to yield medical-grade Sr-82. While some production routes utilize alternative nuclear reaction systems—such as those employing krypton gas or rubidium targets—accelerator-based production currently dominates the medical supply chain. Given that Sr-82 production requires large-scale cyclotrons, high-purity isotopic targets, radiochemical processing facilities, and rigorous radiation safety protocols, the number of institutions capable of stable commercial supply is limited, resulting in high barriers to entry for the industry. The midstream sector primarily encompasses the radiochemical purification of Strontium-82 (Sr-82), activity testing, pharmaceutical-grade quality control, and the manufacturing of Sr-82/Rubidium-82 (Rb-82) generators. Manufacturers must ensure that Sr-82 exhibits high radiochemical purity, low levels of impurity nuclides, and stable decay characteristics to meet the requirements of clinical PET imaging. Once purified, Sr-82 is typically encapsulated within a column-type generator—combined with adsorbent materials such as alumina—allowing for the continuous production of Rb-82 injection solution via saline elution at the hospital site. Given that Sr-82 has a half-life of approximately 25 days, generators require periodic replacement, establishing a long-term supply chain model involving isotope producers, generator suppliers, and medical institutions. Currently, global supply is concentrated among nuclear facilities capable of producing medical isotopes, commercial radiopharmaceutical companies, and specialized nuclear medicine suppliers. The primary application of Sr-82 is in PET myocardial perfusion imaging. The Rb-82 produced by the Sr-82/Rb-82 generator is used to assess myocardial blood flow perfusion, aiding physicians in evaluating coronary artery disease, myocardial ischemia, and cardiovascular risk. Because Rb-82 has an extremely short half-life, patients are exposed to lower radiation doses, and dynamic image acquisition can be completed rapidly, making it particularly suitable for high-throughput cardiac PET examinations. Furthermore, driven by the aging global population, rising incidences of cardiovascular disease, and advancements in precision medicine and molecular imaging technologies, the demand for high-performance diagnostic nuclear medicine isotopes continues to grow. Looking ahead, the Sr-82 market will continue to evolve alongside the widespread adoption of nuclear medicine imaging equipment, the establishment of PET centers, improvements in isotope supply stability, and the optimization of generator technology.

As the parent radionuclide of rubidium-82 (^{82}Rb), strontium-82 is a critical raw material for producing Sr-82/Rb-82 generators. Rubidium-82, characterized by a short half-life of approximately 75 seconds and positron-emitting properties, is widely used in PET myocardial perfusion imaging for the assessment of coronary artery disease, myocardial

ischemia, and cardiovascular risk. Driven by the aging global population, the rising number of patients with cardiovascular diseases, and rapid advancements in precision medicine and molecular imaging, the demand from medical institutions for highly efficient and safe PET diagnostic radionuclides continues to grow, providing a stable impetus for the strontium-82 market.

The widespread adoption of PET imaging technology and the expansion of nuclear medicine infrastructure have driven the growth of both supply and demand for strontium-82. Compared to traditional cardiovascular examination methods, PET myocardial perfusion imaging offers advantages such as high image resolution, robust quantitative analysis capabilities, and rapid procedural workflows, making it particularly suitable for assessing patients with complex cardiovascular conditions. As North America, Europe, and parts of the Asia-Pacific region continue to deploy PET/CT equipment, establish nuclear medicine centers, and standardize the clinical application of radiopharmaceuticals, the scope of Sr-82/Rb-82 generator usage is steadily expanding. Simultaneously, the increasing demand from medical institutions for solutions that provide a stable, long-term supply of positron-emitting radionuclides—without the need for on-site cyclotron production—has further underscored the importance of strontium-82 as a key parent isotope.

The future of the strontium-82 industry will be characterized by a trend toward a centralized supply system, upgraded production technologies, and the coordinated development of the medical isotope industry chain. Given that strontium-82 production relies on high-energy cyclotrons, enriched target materials, complex radiochemical separation processes, and strict regulatory frameworks, the industry is unlikely to adopt a model of mass industrial-scale production; instead, it will maintain a competitive landscape dominated by a limited number of enterprises and research institutions possessing the necessary nuclear facilities and radiopharmaceutical production capabilities. Future competition will focus on improving target material utilization, increasing strontium-82 yields, reducing impurity radionuclide levels, and enhancing the stability of global supply.

Report Scope

This report studies the global Strontium-82 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Strontium-82 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 Strontium-82 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Strontium-82 total production and demand, 2021-2032, (Gram)

Global Strontium-82 total production value, 2021-2032, (USD Million)

Global Strontium-82 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Strontium-82 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Strontium-82 domestic production, consumption, key domestic manufacturers and share

Global Strontium-82 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Strontium-82 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Strontium-82 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Strontium-82 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), Manhattan Isotope Technology LLC, Nordion Canada Inc., BNL(Brookhaven National Laboratory), iThemba LABS(IBA RadioPharma Solutions), 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 Strontium-82 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 Strontium-82 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Strontium-82 Market, Segmentation by Type:

Activity Concentration?50mCi/mL

Activity Concentration?50mCi/mL

Global Strontium-82 Market, Segmentation by Production Route:

Proton Bombardment of Molybdenum-82 Target

Krypton-82 Nuclear Reaction

Global Strontium-82 Market, Segmentation by Purity Grade:

Research-grade Strontium-82

Medical-grade Strontium-82

Global Strontium-82 Market, Segmentation by Chemical Form:

Strontium Ion Solution

Solid Strontium Compound

Global Strontium-82 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

LANL(Los Alamos National Lab)

Manhattan Isotope Technology LLC

Nordion Canada Inc.

BNL(Brookhaven National Laboratory)

iThemba LABS(IBA RadioPharma Solutions)

Key Questions Answered:

1. How big is the global Strontium-82 market?
2. What is the demand of the global Strontium-82 market?
3. What is the year over year growth of the global Strontium-82 market?
4. What is the production and production value of the global Strontium-82 market?
5. Who are the key producers in the global Strontium-82 market?
6. What are the growth factors driving the market demand?

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