

Global Rubidium-87 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 Rubidium-87 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global Rubidium-87 production was approximately 95 grams, with an average global market price of around \$32,000 per gram. That year, total global production capacity for Rubidium-87 reached 180 grams, and the industry's average gross profit margin stood at 35%. Rubidium-87 is a naturally occurring radioactive isotope of rubidium, characterized by an atomic number of 37 and a mass number of 87; it accounts for approximately 27.8% of natural rubidium. As a long-lived radionuclide with a half-life of about 48.8 billion years, it primarily decays via β^- emission into stable strontium-87. Due to its extremely long half-life, stable decay rate, and widespread natural occurrence, ^{87}Rb is a crucial nuclide in geochronology, isotope geology, and fundamental physics research. The ^{87}Rb - ^{87}Sr pair forms a classic isotopic dating system used to determine the ages of rocks, minerals, and geological events, serving as a vital tool for studying Earth's formation and evolution, ore deposit genesis, and planetary geological history. Furthermore, ^{87}Rb possesses unique atomic transition characteristics, making it valuable for research in atomic physics, quantum sensing, cold-atom experiments, and precision measurement. In recent years, advancements in quantum technology, atomic frequency standards, and space exploration have driven a growing demand for high-purity rubidium isotope materials, expanding the application of ^{87}Rb from traditional geological research to advanced scientific instrumentation and quantum technologies.

The upstream sector of the ^{87}Rb industry chain encompasses rubidium-bearing mineral resources, rubidium salt production, isotope separation facilities, high-

purity chemical processing equipment, and material preparation systems. In nature, rubidium primarily exists as an associated element in lepidolite, pollucite, salt lake brines, and potash deposits, and is typically recovered alongside other alkali metals such as cesium and lithium. Industrially, rubidium compounds—such as rubidium chloride and rubidium carbonate—are first obtained through processes like ore leaching, salt lake extraction, ion exchange, and solvent extraction, followed by isotopic enrichment tailored to specific application requirements. Since natural rubidium contains approximately 27.8% ^{87}Rb , whereas scientific research or precision experiments may demand higher isotopic abundance, enrichment techniques such as electromagnetic separation, ion-exchange chromatography, and laser isotope separation are employed. Key upstream barriers to entry center on the preparation of high-purity rubidium raw materials, isotope separation efficiency, impurity control, and the ability to ensure a stable supply. Currently, the primary entities capable of stable, high-purity isotope production are national isotope centers, research institutions, and specialized isotope suppliers. The midstream of the industry chain—comprising isotope separation companies, national laboratories, metrology institutes, and research material supply platforms—is responsible for the further enrichment, chemical purification, encapsulation, and standardized product development of Rubidium-87. Depending on the intended application, midstream products range from high-abundance Rubidium-87 compounds, metallic Rubidium-87, and Rubidium-87 solutions to isotopic reference materials and Rubidium atomic sources for experimental use. In the field of geochronology, the focus lies on the accuracy and metrological traceability of the Rubidium-87/Strontium-87 isotope ratio; in the realm of quantum technology, emphasis is placed on atomic purity, impurity levels, vapor pressure characteristics, and the stability of atomic transitions. Rubidium-87 is frequently utilized in the fabrication of Rubidium atomic vapor cells, cold-atom experimental apparatus, and quantum sensors; its manufacturing process demands rigorous control over chemical purity, isotopic composition, and encapsulation reliability. Downstream applications of Rubidium-87 encompass geochronology, fundamental physics research, quantum information technology, atomic frequency standards, and the manufacture of scientific instruments. Regarding traditional applications, the Rb-Sr isotopic dating system has long been employed in geology, mineralogy, and planetary science to determine the ages of geological events spanning millions to billions of years, serving as a vital tool for studying Earth's evolution. In advanced technology sectors, the stable atomic transition structure of Rubidium-87 makes it widely used in cold-atom experiments, Bose-Einstein condensate research, quantum simulation, atom interferometry, and the development of quantum sensors. Although Rubidium atomic clocks primarily utilize specific transition systems of Rubidium-87 or Rubidium-85, Rubidium isotopic materials remain a crucial foundation for precision time and frequency technologies. Furthermore, Rubidium-87 is

utilized in fundamental physics experiments, such as tests of the equivalence principle, gravity measurements, and dark matter detection research.

The rapid development of quantum technology and precision measurement serves as the primary driver for the growing demand for Rubidium-87 (Rb-87). Characterized by a stable atomic structure and well-defined hyperfine energy level transitions, Rb-87 is a vital material for research in cold atom physics, quantum sensing, and precision measurement. In recent years, the advancement of quantum computing, quantum communication, quantum inertial navigation, and high-precision sensing technologies has led to a sustained rise in demand for experimental platforms based on rubidium atomic systems. Rb-87 is widely utilized in atomic magnetometers, atomic interferometers, Bose-Einstein condensate experiments, and quantum simulation research; its excellent atomic manipulation properties make it a key material for constructing quantum devices and fundamental physics experimental systems. As quantum technology transitions from laboratory research to engineering applications, the demand for high-purity Rb-87 materials, rubidium atomic sources, and related packaged components is expected to continue growing.

The Rb-Sr isotope dating system, based on Rubidium-87 and Strontium-87, is one of the most widely applied long-lived radioactive isotope dating methods in the geosciences. It has long been used for rock age determination, the study of ore deposit formation, the analysis of Earth's evolution, and the investigation of lunar and meteorite samples. With the advancement of deep-earth exploration, planetary science, and space exploration projects, the demand for high-precision isotope analysis technology continues to rise; as a crucial standard nuclide and component of the analytical system, Rb-87 will maintain steady demand in geological research. Furthermore, the need within geochemistry laboratories for high-purity rubidium standard substances, isotopic reference materials, and calibration samples will drive the development of Rb-87 products toward greater standardization and higher precision.

Although Rb-87 exists naturally in relatively high proportions, producing high-purity, high-abundance Rb-87 products requires complex chemical purification and isotope separation processes. Future industry development will focus on improving isotope enrichment efficiency, reducing separation costs, enhancing material purity, and establishing stable supply systems. As quantum experiments and high-end scientific instruments impose stricter requirements regarding material consistency, impurity control, and batch stability, Rb-87 suppliers will gradually shift from merely providing rubidium compounds to offering a comprehensive service model that integrates high-purity isotopic materials, customized technical services, and experimental component

support. At the same time, advancements in automated separation equipment, state-of-the-art mass spectrometry, and precision packaging technologies will enhance quality control capabilities for Rubidium-87 products.

Report Scope

This report is a detailed and comprehensive analysis for global Rubidium-87 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 Rubidium-87 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Rubidium-87 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Rubidium-87 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Rubidium-87 market shares of main players, shipments in revenue (\$ Million), sales quantity (Gram), and ASP (US\$/g), 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 Rubidium-87

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 Rubidium-87 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 ORNL, Rosatom, CortecNet, Eurisotop, Neonest AB(Buylsotope), CNNC, Isoflex USA, AMT Isotopes, Trace Sciences International, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Rubidium-87 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 Segmentation

Market segment by Type

Purity: <99%

Purity: 99%-99.5%

Purity: >99.5%

Market segment by Product Form

Rubidium-87 Metal

Rubidium-87 Compounds

Rubidium-87 Solution

Market segment by Production Technology Route

Purification of Natural Rubidium

Isotope Separation and Enrichment

Market segment by Purity Grade

Nuclear Physics Research Grade

Medical Isotope Research Grade

Metrological Standard Grade

Market segment by Application

Nuclear Medicine

Scientific Research

Major players covered

ORNL

Rosatom

CortecNet

Eurisotop

Neonest AB(BuyIsotope)

CNNC

Isoflex USA

AMT Isotopes

Trace Sciences International

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)

Chapter Outline

Chapter 1, to describe Rubidium-87 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rubidium-87, with price, sales quantity, revenue, and global market share of Rubidium-87 from 2021 to 2026.

Chapter 3, the Rubidium-87 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rubidium-87 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 Rubidium-87 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 Rubidium-87.

Chapter 14 and 15, to describe Rubidium-87 sales channel, distributors, customers, research findings and conclusion.

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