

Global Praseodymium-142 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Praseodymium-142 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 Praseodymium-142 production was approximately 138,000 mCi, with an average global market price of around \$36 per mCi. That year, total global production capacity for Praseodymium-142 reached approximately 230,000 mCi, and the industry's average gross profit margin stood at about 34%. Praseodymium-142 (Pr-142) is an artificial radioisotope of the element praseodymium, characterized by an atomic number of 59 and a mass number of 142 (comprising 59 protons and 83 neutrons). Since praseodymium found in nature consists almost entirely of the stable isotope Pr-141, Pr-142 is primarily produced through artificial nuclear reactions. Its ground-state half-life is approximately 19.12 hours; it decays predominantly (about 99.98%) via beta-minus (??) decay into stable neodymium-142 (Nd-142), with a very small fraction decaying via electron capture into cerium-142 (Ce-142). Pr-142 must be distinguished from its metastable isomer, Pr-142m, which has a half-life of approximately 14.6 minutes.

Upstream operations primarily involve the provision of high-purity Pr-141 targets, research reactors or neutron sources, target encapsulation materials, and equipment for radiation protection and dose monitoring. Because natural praseodymium is essentially composed of Pr-141, production generally does not require costly isotope enrichment; irradiation targets can be prepared using high-purity praseodymium metal, praseodymium oxide, or praseodymium salts, and Pr-142 is subsequently generated via the neutron capture reaction $^{141}\text{Pr}(n,\gamma)^{142}\text{Pr}$. Upstream supply capacity is largely determined by factors such as the research reactor's neutron flux, available irradiation positions, target purity, nuclear reaction cross-sections, and irradiation licensing. Midstream operations encompass target irradiation, cooling and transport, target

dissolution, radiochemical purification, activity measurement, nuclide identification, dispensing, and short-distance distribution. As Pr-142 produced via neutron capture is chemically identical to Pr-141, the two cannot be separated by conventional chemical methods; consequently, the product is typically classified as "carrier-added" radioactive praseodymium rather than carrier-free Pr-142. Midstream facilities must strictly control impurities such as cerium, neodymium, and other activation products, while utilizing equipment such as high-purity germanium (HPGe) gamma spectrometers to verify nuclide purity and activity. Given that the half-life of praseodymium-142 is only about 19 hours, its production, testing, and experimental use must be tightly coordinated—typically involving on-site activation or production near a research reactor—making it unsuitable for long-term stockpiling or routine cross-border transport. Downstream applications currently focus primarily on scientific research and analytical testing, including neutron activation analysis, trace determination of praseodymium, measurement of nuclear reaction cross-sections, studies on beta decay and nuclear structure, radiochemical separation process tracing, and radiation detector experiments. In neutron activation analysis, the praseodymium content of a sample can be determined by irradiating the sample's praseodymium-141 to produce praseodymium-142 and subsequently measuring the resulting characteristic radiation signal.

The Pr-142 sector is primarily driven by demands in neutron activation analysis and fundamental nuclear science research. Natural praseodymium consists almost entirely of the stable isotope Pr-141; consequently, Pr-142 can be produced directly via the $^{141}\text{Pr}(n,\gamma)^{142}\text{Pr}$ reaction. This process generally eliminates the need for isotopically enriched targets, offering advantages such as a stable target supply and a well-defined nuclear reaction pathway. The beta radiation and accompanying gamma signals emitted by Pr-142 are utilized in trace element analysis, nuclear reaction cross-section measurements, nuclear structure research, radiochemical process tracing, and detector performance studies. The ongoing operation of global research reactors, neutron activation analysis laboratories, and nuclear data research programs forms the most stable foundation for current demand.

Nuclear medicine and localized radiotherapy research represent significant potential growth areas for Pr-142. With a half-life of approximately 19.12 hours, Pr-142 decays primarily via beta-minus (β^-) emission. It produces high-energy beta radiation alongside gamma rays suitable for activity measurement and in vivo distribution monitoring, making it a candidate for applications such as brachytherapy, radioactive microspheres, nanocarriers, and targeted radionuclide therapy. However, Pr-142 produced via neutron activation of Pr-141 is typically a "carrier-added" product, which limits its specific

activity; additionally, the high-energy gamma emissions necessitate more stringent shielding and radiation protection measures.

Advancements in production technology will drive the evolution of Pr-142 supply from in-house laboratory production toward standardized, automated, and regionalized models. Technologies such as high-flux research reactors, automated target transfer systems, hot cells, remote dispensing equipment, and rapid activity measurement techniques can shorten the interval between target irradiation and product delivery while reducing radiation exposure for personnel.

Report Scope

This report studies the global Praseodymium-142 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Praseodymium-142 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 Praseodymium-142 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Praseodymium-142 total production and demand, 2021-2032, (mCi)

Global Praseodymium-142 total production value, 2021-2032, (USD Million)

Global Praseodymium-142 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (mCi), (based on production site)

Global Praseodymium-142 consumption by region & country, CAGR, 2021-2032 & (mCi)

U.S. VS China: Praseodymium-142 domestic production, consumption, key domestic manufacturers and share

Global Praseodymium-142 production by manufacturer, production, price, value

and market share 2021-2026, (USD Million) & (mCi)

Global Praseodymium-142 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (mCi)

Global Praseodymium-142 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (mCi)

This report profiles key players in the global Praseodymium-142 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 China Northern Rare Earth, MP Materials, Lynas Rare Earths, Indian Rare Earths Ltd, Solikamsk Magnesium Works, ORNL, Smolecule, American Elements, Kurchatov Institute, 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 Praseodymium-142 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (mCi) and average price (US\$/mCi) 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 Praseodymium-142 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Praseodymium-142 Market, Segmentation by Type:

Praseodymium Metals

Oxides

Halide

Aqueous Solution Ions

Global Praseodymium-142 Market, Segmentation by Nuclear Energy State:

Ground State Praseodymium-142

Metastable State Praseodymium-142m

Global Praseodymium-142 Market, Segmentation by Production Route:

Reactor Neutron Activation type

Accelerator-produced type

High Specific Activity Experimental type

Global Praseodymium-142 Market, Segmentation by Carrier and Specific Activity:

Carrier-added

High Specific Activity or Carrier-free

Global Praseodymium-142 Market, Segmentation by Application:

Nuclear Industry

Permanent Magnetic Materials

Scientific Research

Companies Profiled:

China Northern Rare Earth

MP Materials

Lynas Rare Earths

Indian Rare Earths Ltd

Solikamsk Magnesium Works

ORNL

Smolecule

American Elements

Kurchatov Institute

Key Questions Answered

1. How big is the global Praseodymium-142 market?
2. What is the demand of the global Praseodymium-142 market?
3. What is the year over year growth of the global Praseodymium-142 market?
4. What is the total value of the global Praseodymium-142 market?
5. Who are the Major Players in the global Praseodymium-142 market?
6. What are the growth factors driving the market demand?

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