

Global Praseodymium-142 Market Growth 2026-2032

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Abstracts

The global Praseodymium-142 market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 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

LP Information, Inc. (LPI) ' newest research report, the "Praseodymium-142 Industry Forecast" looks at past sales and reviews total world Praseodymium-142 sales in 2025, providing a comprehensive analysis by region and market sector of projected Praseodymium-142 sales for 2026 through 2032. With Praseodymium-142 sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Praseodymium-142 industry.

This Insight Report provides a comprehensive analysis of the global Praseodymium-142 landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Praseodymium-142 portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Praseodymium-142 market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Praseodymium-142 and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Praseodymium-142.

This report presents a comprehensive overview, market shares, and growth opportunities of Praseodymium-142 market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Praseodymium Metals

Oxides

Halide

Aqueous Solution Ions

Segmentation by Nuclear Energy State:

Ground State Praseodymium-142

Metastable State Praseodymium-142m

Segmentation by Production Route:

Reactor Neutron Activation type

Accelerator-produced type

High Specific Activity Experimental type

Segmentation by Carrier and Specific Activity:

Carrier-added

High Specific Activity or Carrier-free

Segmentation by Application:

Nuclear Industry

Permanent Magnetic Materials

Scientific Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

China Northern Rare Earth

MP Materials

Lynas Rare Earths

Indian Rare Earths Ltd

Solikamsk Magnesium Works

ORNL

Smolecule

American Elements

Kurchatov Institute

Key Questions Addressed in this Report

What is the 10-year outlook for the global Praseodymium-142 market?

What factors are driving Praseodymium-142 market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Praseodymium-142 market opportunities vary by end market size?

How does Praseodymium-142 break out by Type, by Application?

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