

Global Praseodymium-142 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 Praseodymium-142 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 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 is a detailed and comprehensive analysis for global Praseodymium-142 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 Praseodymium-142 market size and forecasts, in consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Praseodymium-142 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Praseodymium-142 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Praseodymium-142 market shares of main players, shipments in revenue (\$ Million), sales quantity (mCi), and ASP (US\$/mCi), 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 Praseodymium-142

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 Praseodymium-142 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 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.

Praseodymium-142 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

Praseodymium Metals

Oxides

Halide

Aqueous Solution Ions

Market segment by Nuclear Energy State

Ground State Praseodymium-142

Metastable State Praseodymium-142m

Market segment by Production Route

Reactor Neutron Activation type

Accelerator-produced type

High Specific Activity Experimental type

Market segment by Carrier and Specific Activity

Carrier-added

High Specific Activity or Carrier-free

Market segment by Application

Nuclear Industry

Permanent Magnetic Materials

Scientific Research

Major players covered

China Northern Rare Earth

MP Materials

Lynas Rare Earths

Indian Rare Earths Ltd

Solikamsk Magnesium Works

ORNL

Smolecule

American Elements

Kurchatov Institute

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 Praseodymium-142 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Praseodymium-142, with price, sales quantity, revenue, and global market share of Praseodymium-142 from 2021 to 2026.

Chapter 3, the Praseodymium-142 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Praseodymium-142 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 Praseodymium-142 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 Praseodymium-142.

Chapter 14 and 15, to describe Praseodymium-142 sales channel, distributors, customers, research findings and conclusion.

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