

# Global Neodymium-150 Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Neodymium-150 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 production of Neodymium-150 was approximately 75 grams, with an average global market price of around \$21,500 per gram. That year, total global production capacity for Neodymium-150 reached approximately 120 grams, and the industry's average gross profit margin stood at about 36%. Neodymium-150 (Nd-150) is a naturally occurring isotope of neodymium with an atomic number of 60 and a mass number of 150; it accounts for approximately 5.64% of natural neodymium. It undergoes double-beta decay to form samarium-150 (Sm-150) with a half-life on the order of  $10^{26}$  years, meaning it can be treated as effectively stable under standard storage and material usage conditions. Characterized by a high double-beta decay energy, Nd-150 is a key candidate nuclide for research into neutrino mass, two-neutrino double-beta decay, and neutrinoless double-beta decay.

The upstream segment encompasses rare-earth mining, separation, the production of high-purity natural neodymium, and the raw materials and equipment required for isotope separation. Neodymium-bearing minerals—such as bastnäsite and monazite—undergo beneficiation, leaching, and rare-earth element separation to yield high-purity neodymium oxide, neodymium salts, or metallic neodymium, which then serve as feedstocks for isotope enrichment. Key factors influencing upstream supply include the security of rare-earth resources, the quality of high-purity neodymium feedstock, and the availability of electromagnetic isotope separation equipment, vacuum systems, ion sources, and high-precision mass spectrometry capabilities. The midstream segment focuses on Nd-150 isotope enrichment, chemical conversion, purification, analytical testing, and target fabrication. Because different neodymium

isotopes share nearly identical chemical properties, conventional chemical separation cannot achieve high Nd-150 abundance; physical methods, such as electromagnetic isotope separation, are typically required. Enriched products can be further processed into forms such as Nd-150 oxide, Nd-150 metal, salts, solutions, thin films, pressed pellets, or experimental targets. The downstream segment serves fields including neutrino physics, nuclear structure research, nuclear reaction experiments, nuclear data measurement, and detector development. Enriched Nd-150 serves as a source material for double-beta decay experiments—investigating whether neutrinos are Majorana particles and constraining the effective neutrino mass—and as a target for nuclear reactions to measure cross-sections, excited energy levels, and decay characteristics. Primary customers include national laboratories, universities, underground neutrino experimental facilities, and nuclear physics research institutions.

The core driving force behind the development of the Neodymium-150 (Nd-150) industry stems from neutrino physics and double-beta decay research. Nd-150 possesses a high Q-value for double-beta decay, providing essential experimental material for the search for neutrinoless double-beta decay, the investigation of whether neutrinos are Majorana particles, and the constraint of effective neutrino mass. As underground low-background laboratories, low-noise detectors, and rare-event measurement technologies continue to advance, the demand from research institutions for highly enriched, low-radioactive-impurity Nd-150 is expected to rise.

Nuclear data measurement and fundamental nuclear physics research constitute another stable driving force. Enriched Nd-150 is utilized in measurements of neutron capture cross-sections, nuclear reaction cross-sections, excited energy levels, and nuclear structures; it also serves as a target material for studying stellar nucleosynthesis and the mechanisms of heavy element formation. While the quantity required for any single application typically ranges from milligrams to grams, the number of experimental projects is diverse, creating a sustained demand for customized products such as metal foils, pressed oxide pellets, self-supporting targets, and surface-deposited targets.

Developments on the supply side are primarily driven by the restoration of stable isotope separation capabilities and the need for supply chain security. Since the chemical properties of neodymium isotopes are virtually identical, enriching Nd-150 relies on high-cost physical methods—such as electromagnetic isotope separation—and only a limited number of institutions worldwide possess the necessary equipment and expertise. Future supply strategies will place greater emphasis on modernizing separation equipment, repurposing historical stockpiles, recovering and purifying spent targets, and establishing regional supply networks; simultaneously, efforts will be made

to improve the efficiency of simultaneous multi-isotope production, thereby distributing the separation costs across products such as Nd-142, Nd-143, Nd-148, and Nd-150.

## Report Scope

This report studies the global Neodymium-150 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Neodymium-150 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 Neodymium-150 that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Neodymium-150 total production and demand, 2021-2032, (Gram)

Global Neodymium-150 total production value, 2021-2032, (USD Million)

Global Neodymium-150 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Neodymium-150 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Neodymium-150 domestic production, consumption, key domestic manufacturers and share

Global Neodymium-150 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Neodymium-150 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Neodymium-150 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Neodymium-150 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 Rosatom, Eurisotop, NIDC, Cambridge Isotope, Neonest AB(BuyIsotope), Clearsynth, ATT Advanced Elemental, American Elements, Trace Sciences International, 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 Neodymium-150 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 Neodymium-150 Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Neodymium-150 Market, Segmentation by Type:**

Reactor Irradiation Production

Accelerator Synthesis

Others

### **Global Neodymium-150 Market, Segmentation by Isotope Enrichment:**

Medium Enrichment (60%–80%)

High Enrichment (>80%–95%)

Very High Enrichment (>95%)

### **Global Neodymium-150 Market, Segmentation by Chemical Form:**

Neodymium-150 Oxide

Neodymium-150 Metal

Neodymium-150 Salts

Neodymium-150 Solution

### **Global Neodymium-150 Market, Segmentation by Chemical Purity:**

3N

4N

5N

Others

### **Global Neodymium-150 Market, Segmentation by Application:**

Nuclear Medicine

Industrial Tracer

Scientific Research

### **Companies Profiled:**

Rosatom

Eurisotop

NIDC

Cambridge Isotope

Neonest AB(BuyIsotope)

Clearsynth

ATT Advanced Elemental

American Elements

Trace Sciences International

## Key Questions Answered

1. How big is the global Neodymium-150 market?
2. What is the demand of the global Neodymium-150 market?
3. What is the year over year growth of the global Neodymium-150 market?
4. What is the total value of the global Neodymium-150 market?
5. Who are the Major Players in the global Neodymium-150 market?
6. What are the growth factors driving the market demand?

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