

Global Sealed Sources 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 Sealed Sources market size was valued at US\$ 1132 million in 2025 and is forecast to a readjusted size of US\$ 1524 million by 2032 with a CAGR of 4.4% during review period.

A Sealed Source is defined as radioactive material that is permanently sealed in a capsule or closely bonded in a solid form. The primary design objective of a sealed source is to prevent the leakage or dispersal of radioactive substances under normal conditions of use and during foreseeable accidents, while still allowing the ionizing radiation (such as gamma, X-rays, or neutrons) to pass through the capsule for its intended application.

The encapsulation is typically made of high-strength, corrosion-resistant materials like stainless steel, titanium, or platinum. According to International Atomic Energy Agency (IAEA) standards, these sources must undergo rigorous testing including impact, vibration, puncture, and heat resistance to ensure 'Special Form' certification. This containment is crucial because, unlike unsealed sources used in nuclear medicine (radiopharmaceuticals), a sealed source is intended to remain physically intact throughout its entire working life and subsequent disposal.

A Sealed Source refers to a radioactive source in which the radioactive material is permanently encapsulated within a robust container, designed to prevent the release of radioactive substances under normal operating conditions and foreseeable accidents while allowing controlled emission of radiation. Sealed sources are widely used across industrial non-destructive testing (NDT), medical radiation therapy and diagnostics, scientific research, energy, and security applications. As a foundational component of civilian nuclear technology, the sealed source market is characterized by high technical

complexity, strict regulatory oversight, and significant barriers to entry, making it a specialized but strategically important segment of the global nuclear technology value chain.

From a demand perspective, the industrial sector remains a major pillar of the sealed source market. In non-destructive testing applications, sealed sources are essential for inspecting welds, pipelines, pressure vessels, and structural components, particularly in oil and gas, petrochemical, power generation, and heavy manufacturing industries. Their ability to provide deep penetration, consistent radiation output, and reliable performance without reliance on complex electrical systems makes sealed sources especially valuable in remote or harsh operating environments. Additionally, sealed-source-based measurement instruments—such as density gauges, level gauges, and thickness gauges—are widely deployed in continuous process control across steel, cement, paper, and chemical industries, supporting automation, quality assurance, and operational safety. As infrastructure maintenance and industrial automation continue to expand globally, these applications provide a stable and recurring demand base.

In the medical sector, sealed sources represent one of the highest-value application areas. They are widely used in radiation therapy, brachytherapy, and selected diagnostic procedures. Although linear accelerators and other non-radioactive technologies have gained market share in advanced healthcare systems, sealed-source-based solutions remain highly relevant due to their cost-effectiveness, operational stability, and lower maintenance requirements. In emerging markets and resource-constrained healthcare environments, sealed sources often serve as a practical and reliable option for cancer treatment. With global aging trends, rising cancer incidence, and ongoing investments in healthcare infrastructure—particularly in developing regions—the medical sealed source segment is expected to maintain steady long-term demand.

Regulatory and supply-side factors play a defining role in shaping the sealed source market. The entire lifecycle of a sealed source—from production and transportation to use, storage, recycling, and final disposal—is governed by stringent international and national regulations, notably those established by the International Atomic Energy Agency (IAEA). While such regulatory frameworks significantly raise compliance costs and limit the number of qualified suppliers, they also reinforce the market position of established manufacturers with proven safety records and comprehensive lifecycle management capabilities. Increasingly, customers evaluate suppliers not only on product performance but also on their ability to provide regulatory support, secure logistics, source tracking, and end-of-life disposal solutions.

Looking ahead, the sealed source market is expected to evolve along three key dimensions: technical refinement, service integration, and risk management. Manufacturers are investing in improved encapsulation technologies, enhanced durability, and longer service life to meet the demands of high-end industrial and medical users. At the same time, value creation is shifting toward integrated service offerings, including digital source tracking, compliance consulting, and source recovery programs. Although alternative non-radioactive technologies continue to challenge certain applications, sealed sources retain clear advantages in scenarios requiring deep penetration, long-term stability, and reliable performance under extreme conditions. Overall, the Sealed Source market represents a low-volatility, high-reliability segment with enduring strategic relevance in the global nuclear and industrial technology landscape.

This report is a detailed and comprehensive analysis for global Sealed Sources 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 Sealed Sources market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Sealed Sources market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Sealed Sources market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Sealed Sources market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2021-2026

The Primary Objectives in This Report Are:

Global Sealed Sources Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Sealed Sources

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 Sealed Sources 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 NRG, Rosatom, NTP Radioisotopes, ANSTO, Nordion, IRE, Curium Pharma, Eckert & Ziegler Strahlen, China Isotope & Radiation Corporation (CIRC), Polatom, etc.

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

Market Segmentation

Sealed Sources 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 segment by Type

Na-22

Co-57

Sr-90

Co-60I-131

Others

Market segment by Type of Radiation

Cat 1

Cat 2

Cat 3

Cat 4

Cat 5

Market segment by IAEA Safety Category

Alpha Source

Beta Source

Market segment by Application

Industry

Medical

Scientific Research

Other

Major players covered

NRG

Rosatom

NTP Radioisotopes

ANSTO

Nordion

IRE

Curium Pharma

Eckert & Ziegler Strahlen

China Isotope & Radiation Corporation (CIRC)

Polatom

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Sealed Sources product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Sealed Sources competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Sealed Sources 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 Sealed Sources 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 Sealed Sources.

Chapter 14 and 15, to describe Sealed Sources sales channel, distributors, customers, research findings and conclusion.

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