

# Global Nuclear Seals and Gaskets Market Growth 2026-2032

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## Abstracts

The global Nuclear Seals and Gaskets market size is predicted to grow from US\$ 1565 million in 2025 to US\$ 2367 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2025, global sales of Nuclear Seals and Gaskets reached 18.6 million units, with an average selling price of \$86 per unit. Total global production capacity for these products stood at approximately 24.5 million units per year, with an industry-average gross margin of around 42%. These products are high-reliability sealing components designed specifically for nuclear power plants, nuclear fuel cycle facilities, nuclear research installations, and other nuclear industry systems; they primarily serve to prevent the leakage of radioactive media, coolants, gases, and chemical substances, thereby ensuring the long-term, safe, and stable operation of nuclear facilities. Such products must meet stringent requirements for high temperatures, high pressures, intense radiation, severe corrosion, and long-term service, adhering to exceptionally high reliability and safety standards. Key products include nuclear-grade metal seals, flexible graphite gaskets, spiral-wound gaskets, bellows seals, spring-energized seals, rubber composite seals, and nuclear-grade flange gaskets; they are widely used in reactor pressure vessels, steam generators, main pump systems, valves, piping connections, and nuclear auxiliary systems.

Upstream raw materials primarily include nickel-based alloys, austenitic stainless steel, flexible graphite, polytetrafluoroethylene (PTFE), specialty rubber, metal mesh, ceramic fibers, and high-performance composite materials. The industry chain comprises upstream suppliers of specialty metals, high-performance polymers, graphite, and sealing materials; midstream manufacturers of nuclear-grade seals and precision machining firms; and downstream entities including nuclear power operators, nuclear

engineering and construction companies, nuclear equipment manufacturers, and research institutions. Future development trends for nuclear industry seals and gaskets point toward higher temperature resistance, enhanced radiation resistance, extended service life, and intelligent condition monitoring. Driven by the global expansion of nuclear power, the construction of advanced reactors, the commercialization of small modular reactors (SMRs), and the need for safety upgrades at existing facilities, high-reliability nuclear-grade sealing products are poised for sustained growth. Demand and business opportunities are concentrated in new nuclear power projects, the maintenance and upgrading of aging plants, the strengthening of domestic supply chains for nuclear equipment, and the domestic substitution of high-end sealing materials; companies possessing capabilities in nuclear-grade certification, material R&D, and long-term reliability validation stand to capture significant market share.

United States market for Nuclear Seals and Gaskets is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nuclear Seals and Gaskets is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nuclear Seals and Gaskets is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nuclear Seals and Gaskets players cover Technetics Group, Minnesota Rubber & Plastics, Omniseal Solutions, Garlock, EagleBurgmann, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

## Report Scope

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

This Insight Report provides a comprehensive analysis of the global Nuclear Seals and Gaskets 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 Nuclear Seals and Gaskets portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Seals and Gaskets market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Seals and Gaskets 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 Nuclear Seals and Gaskets.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Seals and Gaskets market by product type, application, key manufacturers and key regions and countries.

## **Segmentation by Type:**

Metal Seals

Flexible Graphite Seals

PTFE Seals

Others

## **Segmentation by Sealing Structure:**

Metal O-ring Seals

Spiral Wound Gaskets

Bellows Seals

Others

## **Segmentation by Temperature:**

Temperature: <150°C

Temperature: 150–300°C

Temperature: 300–500°C

Others

## **Segmentation by Application:**

Commercial Nuclear Power Plants

Nuclear Research Facilities

Others

## **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.

Technetics Group

Minnesota Rubber & Plastics

Omniseal Solutions

Garlock

EagleBurgmann

Flexitallic

John Crane

TIANSHENG

BINZHOU SHUANGFENG

BAOYE

Curtiss-Wright

VALQUA

James Walker

Hutchinson

LATTY

PILLAR Corporation

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Nuclear Seals and Gaskets market?

What factors are driving Nuclear Seals and Gaskets market growth, globally and by region?

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

How do Nuclear Seals and Gaskets market opportunities vary by end market size?

How does Nuclear Seals and Gaskets break out by Type, by Application?

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