

Global Nuclear Seals and Gaskets 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 Nuclear Seals and Gaskets market size was valued at US\$ 1646 million in 2025 and is forecast to a readjusted size of US\$ 2439 million by 2032 with a CAGR of 5.8% during review period.

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.

Report Scope

This report is a detailed and comprehensive analysis for global Nuclear Seals and Gaskets 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 Nuclear Seals and Gaskets market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Seals and Gaskets market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Seals and Gaskets market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Seals and Gaskets market shares of main players, shipments in

revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Nuclear Seals and Gaskets

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 Nuclear Seals and Gaskets 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 Technetics Group, Minnesota Rubber & Plastics, Omniseal Solutions, Garlock, EagleBurgmann, Flexitallic, John Crane, TIANSHENG, BINZHOU SHUANGFENG, BAOYE, etc.

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

Market Segmentation

Nuclear Seals and Gaskets 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

Metal Seals

Flexible Graphite Seals

PTFE Seals

Others

Market segment by Sealing Structure

Metal O-ring Seals

Spiral Wound Gaskets

Bellows Seals

Others

Market segment by Temperature

Temperature:

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