

Global Nuclear Grade Flexible Graphite Valve Packing Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6C7A8D642DFEN.html>

Date: August 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: G6C7A8D642DFEN

Abstracts

The global Nuclear Grade Flexible Graphite Valve Packing market size is expected to reach \$ 88.25 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Nuclear Grade Flexible Graphite Valve Packing is a high-performance dynamic sealing material specifically designed for nuclear power plant systems. Installed between the valve stem and the stuffing box, it primarily serves to prevent the leakage of high-pressure, high-temperature, or radioactive fluids along the stem, while simultaneously allowing for the stem's reciprocating motion or rotational adjustment.

Upstream materials primarily include high-purity natural flake graphite, expanded graphite, flexible graphite foil, flexible graphite tape, graphite yarn, nickel-based alloy reinforcement filaments, and low-halogen PTFE auxiliary materials. In the production process, high-purity flake graphite typically undergoes intercalation, expansion, and calendaring to form flexible graphite foil or tape; this is followed by braiding, molding, slitting, ring formation, assembly, and precision finishing to produce the valve stem packing. For nuclear-grade products, the critical factors are not merely standard sealing capabilities, but rather the control of harmful ions and chlorine/sulfur content, radiation stability, compression and recovery characteristics, stem friction, extrusion resistance, and adherence to nuclear-grade quality assurance systems.

Global sales volume is projected to reach approximately 270 metric tons in 2025, with an average global price of roughly 180?270 USD/kg; major manufacturers in the industry typically achieve gross margins of approximately 35%?50%.

This report studies the global Nuclear Grade Flexible Graphite Valve Packing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Grade Flexible Graphite Valve Packing 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 Nuclear Grade Flexible Graphite Valve Packing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Grade Flexible Graphite Valve Packing total production and demand, 2021-2032, (Tons)

Global Nuclear Grade Flexible Graphite Valve Packing total production value, 2021-2032, (USD Million)

Global Nuclear Grade Flexible Graphite Valve Packing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nuclear Grade Flexible Graphite Valve Packing consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nuclear Grade Flexible Graphite Valve Packing domestic production, consumption, key domestic manufacturers and share

Global Nuclear Grade Flexible Graphite Valve Packing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nuclear Grade Flexible Graphite Valve Packing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nuclear Grade Flexible Graphite Valve Packing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nuclear Grade Flexible Graphite Valve Packing 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 Garlock, Curtiss-Wright, John Crane, James Walker, Flexitallic, PILLAR Corporation, LATTY, Burgmann Packings, KLINGER, Zhejiang CPS Cathay Packing & Sealing, 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 Nuclear Grade Flexible Graphite Valve Packing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Nuclear Grade Flexible Graphite Valve Packing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Flexible Graphite Valve Packing Market, Segmentation by Type:

Braided Type

Molded Type

Global Nuclear Grade Flexible Graphite Valve Packing Market, Segmentation by Material:

Pure Flexible Graphite

Reinforced Graphite

Global Nuclear Grade Flexible Graphite Valve Packing Market, Segmentation by Application:

Nuclear Island Valves

Conventional Island Valves

Nuclear Power Auxiliary System Valves

Others

Companies Profiled:

Garlock

Curtiss-Wright

John Crane

James Walker

Flexitallic

PILLAR Corporation

LATTY

Burgmann Packings

KLINGER

Zhejiang CPS Cathay Packing & Sealing

Suzhou Baohua Sealing Technology

Binzhou Shuangfeng Graphite Sealing Material

Key Questions Answered:

1. How big is the global Nuclear Grade Flexible Graphite Valve Packing market?
2. What is the demand of the global Nuclear Grade Flexible Graphite Valve Packing market?
3. What is the year over year growth of the global Nuclear Grade Flexible Graphite Valve Packing market?
4. What is the production and production value of the global Nuclear Grade Flexible Graphite Valve Packing market?
5. Who are the key producers in the global Nuclear Grade Flexible Graphite Valve Packing market?
6. What are the growth factors driving the market demand?

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