

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

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Abstracts

The global Nuclear Grade Flexible Graphite Sheet market size is expected to reach \$ 91.42 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Nuclear-grade flexible graphite sheet is a high-purity flexible graphite product?available as sheets, rolls, or reinforced boards?manufactured from high-purity natural flake graphite through processes such as chemical intercalation, expansion, and calendering; it is primarily used to fabricate seals for nuclear power equipment. Compared to standard industrial-grade flexible graphite, nuclear-grade products emphasize high carbon content and low levels of ash, sulfur, chlorine, fluorine, and halogens, alongside batch traceability and strict chemical composition control, all aimed at minimizing the risk of corrosion to stainless steel, nickel-based alloys, and nuclear-grade valve and pump components.

Upstream raw materials primarily include high-purity natural flake graphite, intercalating agents, oxidizing agents, pickling reagents, deionized water, cleaning aids, and anti-oxidation or corrosion-inhibiting agents, as well as reinforcement materials such as stainless steel foil, perforated stainless steel plates, and nickel foil. Nuclear-grade products impose stricter requirements regarding the purity of the raw graphite and the control of impurities?such as ash, sulfur, chlorine, fluorine, sodium, calcium, and iron?and the processes of pickling, expansion, calendering, reinforcement lamination, and cutting must be conducted to avoid contamination by halogens, sulfur, and metals.

In 2025, global sales volume is approximately 1,550 metric tons, the global average price is around \$39/kg, and the gross profit margin for major industry manufacturers ranges from approximately 32% to 48%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Nuclear Grade Flexible Graphite Sheet 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 NeoGraf Solutions, Garlock, SGL Carbon, Mersen, Flexitallic, James Walker, Zhejiang Cathay Packing Sealing, Binzhou Shuangfeng Graphite Sealing Materials, Suzhou Baohua Machinery Technology, Ningbo Ruiyi Sealing Material, 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 Sheet 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 Sheet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Flexible Graphite Sheet Market, Segmentation by Type:

Pure Flexible Graphite Sheet

Composite Reinforced Flexible Graphite Sheet

Global Nuclear Grade Flexible Graphite Sheet Market, Segmentation by Density:

Medium-to-Low Density

High Density

Global Nuclear Grade Flexible Graphite Sheet Market, Segmentation by Application:

Nuclear Power Valves

Nuclear-Grade Pumps

Nuclear-Grade Pipe Flanges

Others

Companies Profiled:

NeoGraf Solutions

Garlock

SGL Carbon

Mersen

Flexitallic

James Walker

Zhejiang Cathay Packing Sealing

Binzhou Shuangfeng Graphite Sealing Materials

Suzhou Baohua Machinery Technology

Ningbo Ruiyi Sealing Material

Key Questions Answered:

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

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