

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

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Abstracts

The global Nuclear Grade Graphite Materials market size is expected to reach \$ 528 million by 2032, rising at a market growth of 13.8% CAGR during the forecast period (2026-2032).

In 2025, global Nuclear Grade Graphite Materials production reached approximately 10,042 Tons, the average price is US\$ 17,544/Ton. Nuclear grade graphite materials are high-purity artificial graphite materials specifically designed for use in nuclear reactor environments. They are primarily used for neutron moderation, reflection, core structural support, and high-temperature radiation-resistant components. These materials are typically manufactured using carbon-based raw materials such as petroleum coke and needle coke through complex processes including isostatic pressing, calcination, impregnation, graphitization, and ultra-high purification. They require extremely low boron equivalent, excellent neutron performance, radiation resistance, high-temperature oxidation resistance, and long-term dimensional stability. Nuclear-grade graphite is widely used in high-temperature gas-cooled reactors (HTGR), very high-temperature reactors (VHTR), molten salt reactors (MSR), advanced small modular reactors (SMR), and some nuclear fusion systems, making it one of the key strategic materials in the advanced nuclear energy industry.

The global nuclear grade graphite materials industry is a high-barrier, technology-intensive advanced materials market, primarily used in high-temperature gas-cooled reactors (HTGRs), small modular reactors (SMRs), nuclear fusion, and fourth-generation nuclear power systems. Due to the need for ultra-high purity, low boron content, excellent neutron moderation properties, and long-term radiation stability, the global market is highly concentrated, with core manufacturers including FangDa Carbon, Mersen, SGL Carbon, Tokai Carbon, Ibiden, Morgan Advanced Materials, Toyo

Tanso, Nippon Carbon, and Amsted Graphite Materials, among others.

Regionally, Japan is the core technology center for nuclear grade graphite materials globally. Toyo Tanso, Tokai Carbon, Ibiden, and Nippon Carbon have long dominated the high-end isostatic pressing nuclear grade graphite market, possessing significant technological advantages in high-purity graphite, isostatic pressing processes, and advanced reactor graphite. In Europe, companies like SGL Carbon and Mersen maintain a leading position in nuclear fusion, high-temperature structural graphite, and high-purity graphite refining. In recent years, the US market has seen significant strengthening of its domestic supply chain due to the development of SMR and advanced nuclear reactors. China, relying on companies like FangDa Carbon, is rapidly increasing its market share in fourth-generation nuclear power and domestically produced nuclear materials.

From an industry development perspective, the global nuclear-grade graphite materials market is benefiting from the low-carbon energy transition, the commercialization of SMR, and the upgrading of advanced nuclear energy technologies. The industry as a whole is showing a development trend of 'high purification, long lifespan, precision machining, and integrated services.' At the same time, countries are strengthening the construction of their domestic nuclear-grade graphite supply chains to enhance the security of strategic materials. In the future, the high-end market will still be dominated by a few leading international companies with long-term nuclear industry certification, materials research and development capabilities, and large-scale production systems, and industry concentration is expected to further increase.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Nuclear Grade Graphite Materials 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 FangDa Carbon, Mersen, SGL Carbon, Tokai Carbon, Ibiden, Morgan Advanced Materials, Toyo Tanso, Nippon Carbon, Amsted Graphite Materials, 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 Graphite Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Graphite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Graphite Materials Market, Segmentation by Type:

Isotropic

Non-Isotropic

Global Nuclear Grade Graphite Materials Market, Segmentation by Raw Material:

Coal-Based Graphite

Petroleum Coke-Based Graphite

Others

Global Nuclear Grade Graphite Materials Market, Segmentation by Particle Size:

Ultrafine-Grained Graphite (Particle Size Range: $\leq 10 \mu\text{m}$)

Fine-Grained Graphite (Particle Size Range: $>10 \mu\text{m}$ and $\leq 75 \mu\text{m}$)

Medium-Grained Graphite (Particle Size Range: $>75 \mu\text{m}$ and $\leq 400 \mu\text{m}$)

Coarse-Grained Graphite (Particle Size Range: $>400 \mu\text{m}$)

Global Nuclear Grade Graphite Materials Market, Segmentation by Application:

Nuclear Reactor Moderator

Nuclear Reactor Reflector

Others

Companies Profiled:

FangDa Carbon

Mersen

SGL Carbon

Tokai Carbon

Ibiden

Morgan Advanced Materials

Toyo Tanso

Nippon Carbon

Amsted Graphite Materials

Key Questions Answered:

1. How big is the global Nuclear Grade Graphite Materials market?
2. What is the demand of the global Nuclear Grade Graphite Materials market?
3. What is the year over year growth of the global Nuclear Grade Graphite Materials market?
4. What is the production and production value of the global Nuclear Grade Graphite Materials market?

5. Who are the key producers in the global Nuclear Grade Graphite Materials market?
6. What are the growth factors driving the market demand?

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