

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

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## Abstracts

The global Nuclear Reactor 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 Reactor Graphite Materials production reached approximately 10,042 Tons, the average price is US\$ 17,544/Ton. Nuclear reactor graphite materials are high-purity graphite engineered for extreme conditions within nuclear reactors. They serve critical functions such as neutron moderation, reflection, core structural support, and fabrication of high-temperature radiation-resistant components. Manufactured from carbon-based precursors like petroleum coke and needle coke, these materials undergo complex processing including isostatic pressing, calcination, impregnation, graphitization, and ultra-high purification to achieve exceptionally low boron equivalent content. Key performance attributes include superior neutron performance, high resistance to radiation damage, excellent high-temperature oxidation resistance, and long-term dimensional stability under intense irradiation. These properties make nuclear-grade graphite indispensable in advanced reactor designs, including high-temperature gas-cooled reactors (HTGRs), very high-temperature reactors (VHTRs), molten salt reactors (MSRs), small modular reactors (SMRs), and certain nuclear fusion systems. Consequently, it is recognized as a strategic material underpinning the development of next-generation nuclear energy technologies.

Regionally, Japan is the core technology center for global nuclear reactor graphite materials. Tokai Carbon, Ibiden, Toyo Tanso, 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 leading positions in nuclear fusion, high-temperature structural graphite, and high-purity graphite refining. In recent years, the US domestic supply chain has been significantly strengthened due to the development of small modular reactors (SMRs) and advanced nuclear reactors. China, relying on companies like Fangda Carbon, has rapidly increased its market share in fourth-generation nuclear power and domestically produced nuclear materials.

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

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

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

Highlights and key features of the study

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

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

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

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

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

Global Nuclear Reactor Graphite Materials production by manufacturer, production,

price, value and market share 2021-2026, (USD Million) & (Tons)

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

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

This report profiles key players in the global Nuclear Reactor 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 Reactor 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 Reactor Graphite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Nuclear Reactor Graphite Materials Market, Segmentation by Type:

Isotropic

Non-Isotropic

#### Global Nuclear Reactor Graphite Materials Market, Segmentation by Raw Materials:

Coal-Based Graphite

Petroleum Coke-Based Graphite

Others

#### Global Nuclear Reactor Graphite Materials Market, Segmentation by Particle Size:

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

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

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

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

#### Global Nuclear Reactor 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 Reactor Graphite Materials market?
2. What is the demand of the global Nuclear Reactor Graphite Materials market?
3. What is the year over year growth of the global Nuclear Reactor Graphite Materials market?
4. What is the production and production value of the global Nuclear Reactor Graphite Materials market?
5. Who are the key producers in the global Nuclear Reactor Graphite Materials market?
6. What are the growth factors driving the market demand?

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