

Global Nuclear Graphite Market Growth 2026-2032

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Abstracts

The global Nuclear Graphite market size is predicted to grow from US\$ 172 million in 2025 to US\$ 526 million in 2032; it is expected to grow at a CAGR of 14.7% from 2026 to 2032.

In 2025, global Nuclear Graphite production reached approximately 10,042 Tons, the average price is US\$ 17,544/Ton. Nuclear Graphite is high-purity artificial graphite materials specifically designed for use in nuclear reactor environments. Nuclear Graphite is used for neutron moderation, reflection, core structural support, and high-temperature radiation-resistant components. Nuclear Graphite is 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. Nuclear Graphite require extremely low boron equivalent, excellent neutron performance, radiation resistance, high-temperature oxidation resistance, and long-term dimensional stability. Nuclear 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 graphite 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 graphite globally. Toyo Tanso, Tokai Carbon, Ibiden, and Nippon Carbon have long dominated the high-end isostatic pressing nuclear 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 graphite 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 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.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Graphite Industry Forecast" looks at past sales and reviews total world Nuclear Graphite sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear Graphite sales for 2026 through 2032. With Nuclear Graphite sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Graphite industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Graphite landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Graphite portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Graphite market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Graphite and breaks down the forecast by Type,

by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Graphite.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Graphite market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Isotropic

Non-Isotropic

Segmentation by Raw Material:

Coal-Based Graphite

Petroleum Coke-Based Graphite

Others

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: $>400 \mu\text{m}$)

Segmentation by Application:

Nuclear Reactor Moderator

Nuclear Reactor Reflector

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

FangDa Carbon

Mersen

SGL Carbon

Tokai Carbon

Ibiden

Morgan Advanced Materials

Toyo Tanso

Nippon Carbon

Amsted Graphite Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nuclear Graphite market?

What factors are driving Nuclear Graphite market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Graphite market opportunities vary by end market size?

How does Nuclear Graphite break out by Type, by Application?

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