

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

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Abstracts

The global Nuclear Graphite Powder market size is expected to reach \$ 1187 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, the global production of Nuclear Graphite Powder will reach 34,252 tons, with an average selling price of 21,400 US dollars. Nuclear-grade graphite powder refers to the graphite powder material that meets nuclear-grade technical standards and is used in nuclear industrial applications. Its technical indicators and performance requirements are much higher than those of ordinary industrial graphite powder.

Generation IV Nuclear Technology Drives Demand Upgrade

The commercialization of Generation IV nuclear technology will become a major driving force for the development of the nuclear graphite powder industry. As one of the primary technical routes in fourth-generation nuclear power, the High-Temperature Gas-Cooled Reactor (HTGR) represents a significant milestone. China's Huaneng Shidaowan Nuclear Power Station was completed and commenced commercial operation on June 9, 2024, marking a critical transition from experimental reactor status to commercial-scale deployment. Furthermore, advanced reactor concepts including Molten Salt Reactors (MSR), Sodium-cooled Fast Reactors (SFR), and Very High Temperature Reactors (VHTR) are undergoing continuous research, development, and promotion globally. These next-generation reactor systems demand superior graphite materials with enhanced specifications for purity, density, thermal stability, and radiation resistance properties, thereby compelling the industry to advance toward high-end product development and technological innovation.

Downstream Application Areas Continue to Expand

The downstream application scope for nuclear graphite powder is progressively extending beyond traditional nuclear engineering sectors into diverse industries. Specific areas demonstrating stable demand for high-quality graphite powder include: lithium battery cathode crucibles for battery manufacturing; single-crystal/multi-crystal furnace thermal field components in the photovoltaic sector; electronic-grade graphite materials for the semiconductor industry; rocket nozzles and thermal protection systems for aerospace applications; and consumables for strategic emerging industrial sectors within military industry. This diversified application portfolio effectively mitigates risks associated with market volatility in any single sector while simultaneously generating new momentum for industry growth across multiple end-use markets.

Production Processes Evolve Towards Intelligence and Green Development

In terms of manufacturing technology, equipment is advancing toward large-scale capacity, system integration, and intelligent automation. Larger flotation and regrinding units have enhanced mineral processing efficiency, while fluorine-free purification processes are becoming the industry standard to address increasingly stringent environmental regulations. Concurrently, ball-shaping equipment for negative electrode materials is evolving toward large-capacity systems delivering higher sphericity yields. The adoption of innovative equipment such as CVD carbon coating furnaces has also contributed to improved product quality standards. Moreover, green environmental protection principles, sustainable development objectives, and low-carbon emission requirements have emerged as core imperatives for industry advancement, necessitating continuous process optimization by enterprises throughout production cycles to minimize environmental pollution and resource depletion.

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

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

Highlights and key features of the study

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

Global Nuclear Graphite Powder total production value, 2021-2032, (USD Million)
Global Nuclear Graphite Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Nuclear Graphite Powder consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Nuclear Graphite Powder domestic production, consumption, key domestic manufacturers and share
Global Nuclear Graphite Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Nuclear Graphite Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Nuclear Graphite Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nuclear Graphite Powder 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 SGL Carbon, Mersen, Toyo Tanso, GrafTech International, Fangda Carbon New Materials, SIAMC Advanced Materials, Liaoning Glory Carbon, 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 Graphite Powder 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 Graphite Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Graphite Powder Market, Segmentation by Type:

Natural Graphite Powder

Synthetic Graphite Powder

Global Nuclear Graphite Powder Market, Segmentation by Physical Form Classification:

Ultrafine Graphite Powder

Nanographite Powder

Flaky Graphite Powder

High Purity Graphite Powder

Global Nuclear Graphite Powder Market, Segmentation by Carbon Content Classification:

High-Carbon Graphite

Medium-Carbon Graphite

Low-Carbon Graphite

Global Nuclear Graphite Powder Market, Segmentation by Application:

Application of Nuclear Reactor Core

Application of High-temperature Gas-cooled Reactor

Other Nuclear Applications

Companies Profiled:

SGL Carbon

Mersen

Toyo Tanso

GrafTech International

Fangda Carbon New Materials

SIAMC Advanced Materials

Liaoning Glory Carbon

Key Questions Answered:

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

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