

Global 5N Grade Graphite Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5N Grade Graphite market size is expected to reach \$ 258 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

In 2025, global 5N Grade Graphite production reached approximately 8960 Tons, the average price is US\$ 15,273 /Ton. 5N Grade Graphite is an ultra-high purity graphite material with a purity index of 99.999% (i.e., five '9s'), corresponding to an ash content typically below 10 ppm. Key impurity elements (such as boron, lithium, sodium, aluminum, and iron) are controlled at ppm or even sub-ppm levels. Compared to ordinary high-purity graphite, 5N grade graphite has extremely stringent restrictions on metallic impurities and elements with high neutron absorption cross-sections. Its preparation requires a combination of high-temperature gas-phase purification (such as halogen gas reaction) or multiple deep chemical purification processes, further removing trace impurities after complete graphitization. This material is mainly targeted at cutting-edge applications such as graphite substrates for semiconductor epitaxial furnaces, high-end fiber optic drawing heaters, precision mold EDM, and structural components for special nuclear reactors (such as molten salt reactors). It represents a high-value-added product at the pinnacle of the carbon materials field, reflecting a country's top level of high-purity carbon technology.

The global development of 5N grade graphite (99.999% purity) exhibits a significant pattern of technological monopoly and regional differentiation. Japan holds an absolute leading position, with companies like Toyo Carbon and Tokai Carbon possessing mature large-scale mass production technologies, and their products dominating the high-end markets globally, such as semiconductor epitaxial graphite substrates and fiber optic heaters. In Europe and the US, companies like SGL Carbon (Germany) and Mersen (France) possess small-batch production capabilities, primarily serving the

aerospace, defense, and special nuclear energy sectors, but their production capacity is smaller than Japan's. China is currently in a phase of rapid catch-up, with a few leading companies achieving laboratory breakthroughs and pilot production of 5N grade products, but there are still significant gaps in industrialization stability, batch consistency, and key impurity control compared to Japan. Overall, the 5N grade graphite market is highly concentrated, with Japan holding over 70% of the global high-end share, while China is accelerating its domestic production verification process.

This report studies the global 5N Grade Graphite production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5N Grade Graphite 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 5N Grade Graphite that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5N Grade Graphite total production and demand, 2021-2032, (Tons)

Global 5N Grade Graphite total production value, 2021-2032, (USD Million)

Global 5N Grade Graphite production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 5N Grade Graphite consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 5N Grade Graphite domestic production, consumption, key domestic manufacturers and share

Global 5N Grade Graphite production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 5N Grade Graphite production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 5N Grade Graphite production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 5N Grade Graphite 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 Toyo Tanso, Sarytogan Graphite, Ibiden, Mersen, China Minmetals, Focus Graphite, Vulcan Technology, SGL Carbon, Tianfeng Graphite, SEC 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 5N Grade Graphite 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 5N Grade Graphite Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5N Grade Graphite Market, Segmentation by Type:

Synthetic Graphite

Natural Graphite

Global 5N Grade Graphite 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 5N Grade Graphite Market, Segmentation by Application:

Semiconductors & Photovoltaics

Energy Storage & Batteries

Metallurgy & Chemicals

Aerospace & Defense

Nuclear Energy

Others

Companies Profiled:

Toyo Tanso

Sarytogan Graphite

Ibiden

Mersen

China Minmetals

Focus Graphite

Vulcan Technology

SGL Carbon

Tianfeng Graphite

SEC CARBON

Entegris POCO Materials

SIAMC

Key Questions Answered:

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

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