

# Global Semiconductor Grade Graphite Blocks Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semiconductor Grade Graphite Blocks market size is expected to reach \$ 274 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global semiconductor grade graphite blocks production reached approximately 53 k units, the average price is 3500 usd/unit. Semiconductor grade graphite blocks have excellent properties such as good conductivity, high temperature resistance, corrosion resistance, high purity, self-lubricating, thermal shock resistance, isotropy, and easy precision machining.

**Market Concentration and Key Players:**

Internationally, the market concentration of semiconductor-grade graphite blocks is relatively high, mainly concentrated in developed countries in Europe, America and Japan. For example, Olmec Advanced Materials and Entegris and other large manufacturers; from the domestic point of view, semiconductor-grade graphite blocks still have a lot of room for development.

**Manufacturing Processes and Market Trends:**

Semiconductor-grade graphite plays a key role in semiconductor manufacturing due to its high purity, excellent thermal conductivity and stable chemical properties. Its manufacturing process is sophisticated and complex, and market development follows technical iteration and policy support. Preparation of high-purity graphite block usually needle coke or pitch coke as raw materials, after crushing and screening, mixed with binder to make paste. The key process is to adopt isostatic pressing technology to make the green body uniform and dense, and then after a long time of high temperature baking and graphitization treatment at an ultra-high temperature of 2500 to 3000 degrees Celsius, this process requires extremely high temperature and atmosphere control to ensure that the final product achieves purity of more than 99.99% and isotropic excellent performance. Some innovative processes also try to introduce

materials such as modified carbon fiber to further improve the bending strength and authenticity of the product.

At present, the market scale of semiconductor-grade graphite blocks in China continues to expand. Driven by the strong demand of emerging industries such as 5G communication and new energy vehicles, it is expected that the market capacity will reach billions of yuan in the future. The industry shows an obvious trend of domestic substitution, and enterprises in Weihai and other places are aiming at the opportunities of the third generation semiconductor market by virtue of customized production capacity. Looking to the future, the industry will continue to upgrade towards higher purity, refinement and intelligence. Technological breakthroughs in high-purity graphite and graphene are expected to reshape the industrial landscape and provide a solid material foundation for the independent control of the semiconductor industry.

This report studies the global Semiconductor Grade Graphite Blocks production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Semiconductor Grade Graphite Blocks total production and demand, 2021-2032, (K Units)

Global Semiconductor Grade Graphite Blocks total production value, 2021-2032, (USD Million)

Global Semiconductor Grade Graphite Blocks production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Semiconductor Grade Graphite Blocks consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Semiconductor Grade Graphite Blocks production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Semiconductor Grade Graphite Blocks production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Semiconductor Grade Graphite Blocks production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Semiconductor Grade Graphite Blocks 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 Olmec Advanced Materials, Entegris, Toyo Tanso, SGL Carbon, Morgan Advanced Materials, Mersen, Graphite India, CGT Carbon, Graphite Central, Nippon Techno 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 Semiconductor Grade Graphite Blocks market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Technology, 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 Semiconductor Grade Graphite Blocks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Grade Graphite Blocks Market, Segmentation by Technology:

Extruded Graphite

Molded Graphite

Isostatic Graphite

Global Semiconductor Grade Graphite Blocks Market, Segmentation by Purity:

High Purity

Ultra High Purity

Global Semiconductor Grade Graphite Blocks Market, Segmentation by Performance:

Isotropic Graphite

Anisotropic Graphite

Global Semiconductor Grade Graphite Blocks Market, Segmentation by Application:

Semiconductor Crystal

Semiconductor Chip

Semiconductor Equipment

Others

**Companies Profiled:**

Olmec Advanced Materials

Entegris

Toyo Tanso

SGL Carbon

Morgan Advanced Materials

Mersen

Graphite India

CGT Carbon

Graphite Central

Nippon Techno Carbon

Tokai Carbon

IBIDEN

**Key Questions Answered:**

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

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