

# Global SiC Coated Graphite Susceptor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global SiC Coated Graphite Susceptor market size is expected to reach \$ 621 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

SiC Coated Graphite Susceptor is a high-purity graphite carrier component protected by a CVD silicon carbide coating and used inside epitaxy or MOCVD reactors to support, heat, and repeatedly cycle semiconductor substrates under corrosive and high-temperature process conditions. It is important because coating integrity, dimensional control, thermal uniformity, and contamination performance directly influence epitaxial layer quality, reactor uptime, and wafer yield. Upstream, the industry depends on high-purity isostatic graphite, precision machining, CVD coating capability, purification, and tight metrology. Downstream, the main users are silicon epitaxy fabs, SiC power device manufacturers, LED epi houses, and GaN electronics producers. Procurement is usually qualification-led rather than purely price-led: suppliers work through OEM approval, fab validation, periodic replacement demand, and repeat orders tied to installed reactors.

The current market is around 351.96 k pcs with an average selling price of about 960 USD per pc on an EXW basis, and the top five suppliers control roughly 70% of global revenue. Demand is centered in China and the rest of Asia-Pacific, while Europe and North America remain important because they host meaningful silicon epitaxy, SiC power, and advanced compound semiconductor capacity. Product mix is not uniform. Official supplier portfolios show that the market spans single-wafer, pancake, barrel, and planetary or rotating configurations, while size formats range from 2-inch and 4-inch multi-pocket trays through 6-inch and 8-inch carriers to 200 mm and 300 mm formats. Pricing therefore varies materially by architecture, wafer size, and application. A

workable industry gross margin estimate for qualified suppliers is about 32%. The barrier comes from high-purity graphite preparation, coating homogeneity, repeatable machining tolerances, long validation cycles with equipment makers and fabs, and the need to keep coating life and particle control stable over repeated replacement cycles. In practice, annual framework orders, call-off purchasing, and replacement-driven repeat buys are more common than one-off spot procurement.

From 2026 to 2032, the market direction remains positive, but growth should be uneven across applications. The strongest medium-term support comes from wider SiC and GaN adoption in power electronics, continued LED and Micro LED tool demand, and ongoing installed-base replacement demand for qualified reactor internals. The main bottlenecks are qualification speed, coating yield, graphite substrate purity, dimensional reproducibility on larger and more complex geometries, and customer caution after periods of overcapacity in power electronics. Compliance and carbon pressure will also matter more: users increasingly care about longer service life, lower defect risk, traceability, and more efficient reactor operation. AI is only an indirect demand driver, but it still matters because AI data center power efficiency and optical interconnect expansion support broader GaN, SiC, and optoelectronic investment.

This report studies the global SiC Coated Graphite Susceptor production, demand, key manufacturers, and key regions.

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

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

Global SiC Coated Graphite Susceptor total production and demand, 2021-2032, (K Pcs)

Global SiC Coated Graphite Susceptor total production value, 2021-2032, (USD Million)

Global SiC Coated Graphite Susceptor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global SiC Coated Graphite Susceptor consumption by region & country, CAGR,

2021-2032 & (K Pcs)

U.S. VS China: SiC Coated Graphite Susceptor domestic production, consumption, key domestic manufacturers and share

Global SiC Coated Graphite Susceptor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global SiC Coated Graphite Susceptor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global SiC Coated Graphite Susceptor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global SiC Coated Graphite Susceptor 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, SGL Carbon, Tokai Carbon, Mersen, Bay Carbon, CoorsTek, Schunk Xycarb Technology, ZhiCheng Semiconductor, Hunan Dezhi New Material, Zhejiang Liufang Semiconductor Technology, 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 SiC Coated Graphite Susceptor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 SiC Coated Graphite Susceptor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global SiC Coated Graphite Susceptor Market, Segmentation by Type:

Pancake Susceptor

Barrel Susceptor

Other

#### Global SiC Coated Graphite Susceptor Market, Segmentation by Supported Wafer Size:

Up to 4 Inch

6 Inch

8 Inch

12 Inch or 300 mm

Other

#### Global SiC Coated Graphite Susceptor Market, Segmentation by SiC Coating

**Thickness:**

Thin Coating 20–100  $\mu$ m

Medium Coating >100–300  $\mu$ m

Thick Coating >300–500  $\mu$ m

**Global SiC Coated Graphite Susceptor Market, Segmentation by Application:**

MOCVD Susceptors

Susceptor for Silicon Epitaxial Growth

Susceptor for SiC Epitaxial Growth

Other

**Companies Profiled:**

Toyo Tanso

SGL Carbon

Tokai Carbon

Mersen

Bay Carbon

CoorsTek

Schunk Xycarb Technology

ZhiCheng Semiconductor

Hunan Dezhi New Material

## Zhejiang Liufang Semiconductor Technology

### **Key Questions Answered:**

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

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