

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

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Abstracts

The global SiC Coated Graphite Trays market size is expected to reach \$ 617 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

SiC coated graphite trays are specialized trays used in various high-temperature industrial processes, particularly in semiconductor manufacturing and other applications requiring extreme thermal stability and resistance to chemical corrosion. These trays are typically made of graphite, a lightweight and conductive material, which is coated with a layer of silicon carbide (SiC). This SiC coating provides enhanced durability, thermal shock resistance, and chemical inertness, making the trays ideal for environments with aggressive chemical reactions and high operating temperatures. SiC coated graphite trays are widely used in processes such as chemical vapor deposition (CVD), epitaxial growth, and high-temperature annealing, where they help maintain product quality and prolong equipment lifespan. The price of this product is approximately \$3,500-\$4,200 per piece.

The upstream of SiC coated graphite trayss consists of high-purity graphite materials and chemical vapor deposition precursors, while the downstream is primarily driven by MOCVD equipment manufacturers and LED, GaN, and SiC epitaxy producers requiring high-temperature, high-purity wafer handling components.

The SiC coated graphite trays market is characterized by a combination of high technical barriers and strong application specificity, positioning it as a critical yet niche component within the compound semiconductor equipment ecosystem. Demand growth is primarily driven by the expansion of LED, GaN, and SiC power device production, where increasingly stringent requirements on thermal uniformity, contamination control, and equipment compatibility are pushing suppliers toward higher coating quality and

longer service life solutions. At the same time, the market exhibits a clear tiered structure, with international players maintaining an advantage in high-end applications due to superior coating processes and material consistency, while Chinese domestic manufacturers continue to gain share in cost-sensitive and mid-range segments. Looking ahead, the market is expected to benefit from the scaling of wide bandgap semiconductor applications and larger wafer sizes, although pricing pressure and customization requirements will continue to shape competitive dynamics and margin structures.

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

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

Highlights and key features of the study

Global SiC Coated Graphite Trays total production and demand, 2021-2032, (K Units)

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

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

Global SiC Coated Graphite Trays consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global SiC Coated Graphite Trays 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 Trays 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 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 Trays Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC Coated Graphite Trays Market, Segmentation by Type:

Pancake Susceptor

Barrel Susceptor

Other

Global SiC Coated Graphite Trays Market, Segmentation by Coating Thickness:

Thin Coating 20?100 ?m

Medium Coating >100?300 ?m

Thick Coating >300?500 ?m

Global SiC Coated Graphite Trays Market, Segmentation by Wafer Size:

4 Inch and Below

6 Inch

8 Inch and Above

Global SiC Coated Graphite Trays Market, Segmentation by Application:

Equipment Manufacturers

Wafer Manufacturers

Others

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

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