

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

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Abstracts

The global LED SiC Coated Graphite Susceptors market size is expected to reach \$ 446 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

LED SiC coated graphite substrates are key components used in the production of LED wafers through chemical vapor deposition (CVD) processes. These substrates are made of graphite and coated with silicon carbide (SiC) to enhance their thermal and chemical stability. The SiC coating prevents the graphite from reacting with process gases and provides a high-temperature, corrosion-resistant surface. During LED wafer manufacturing, the substrate holds the substrate wafer in place and ensures uniform heating and temperature distribution, which is crucial for the precise growth of semiconductor layers. This improves the efficiency, quality, and yield of LED manufacturing, making SiC-coated graphite substrates essential for the production of high-performance LED equipment. The price of this product is approximately \$3,500-\$4,200 per piece.

The upstream of SiC coated graphite substrates 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.

From a research report perspective, the SiC coated graphite substrate 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 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 LED SiC Coated Graphite Susceptors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global LED SiC Coated Graphite Susceptors total production and demand, 2021-2032, (Units)

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

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

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

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

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

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

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

This report profiles key players in the global LED SiC Coated Graphite Susceptors

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 LED SiC Coated Graphite Susceptors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 LED SiC Coated Graphite Susceptors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LED SiC Coated Graphite Susceptors Market, Segmentation by Type:

Pancake Susceptor

Barrel Susceptor

Other

Global LED SiC Coated Graphite Susceptors Market, Segmentation by Coating Thickness:

Thin Coating 20?100 ?m

Medium Coating >100?300 ?m

Thick Coating >300?500 ?m

Global LED SiC Coated Graphite Susceptors Market, Segmentation by Wafer Size:

4 Inch and Below

6 Inch

8 Inch and Above

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

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