

Global LED Silicon Carbide Carrier Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global LED Silicon Carbide Carrier 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).

An LED Silicon Carbide (SiC) carrier is a substrate used in the manufacturing of light-emitting diodes (LEDs), leveraging the properties of silicon carbide to enhance the performance and efficiency of the LEDs. Silicon carbide is known for its high thermal conductivity, robustness, and ability to handle high power densities, making it an ideal material for use in LED carriers. By providing a stable and efficient platform for the LED's semiconductor layers, SiC carriers help improve heat dissipation, increase light output, and extend the lifespan of the LEDs. These carriers are particularly useful in high-power and high-brightness LED applications, such as in automotive lighting, outdoor displays, and advanced general lighting solutions. The price of this product is approximately \$3,500-\$4,200 per piece.

The upstream of Silicon Carbide Carriers 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 Silicon Carbide Carrier 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 Silicon Carbide Carrier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LED Silicon Carbide Carrier 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 Silicon Carbide Carrier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LED Silicon Carbide Carrier total production and demand, 2021-2032, (Units)

Global LED Silicon Carbide Carrier total production value, 2021-2032, (USD Million)

Global LED Silicon Carbide Carrier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global LED Silicon Carbide Carrier consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: LED Silicon Carbide Carrier domestic production, consumption, key domestic manufacturers and share

Global LED Silicon Carbide Carrier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global LED Silicon Carbide Carrier production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global LED Silicon Carbide Carrier production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global LED Silicon Carbide Carrier 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 Silicon Carbide Carrier 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 Silicon Carbide Carrier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LED Silicon Carbide Carrier Market, Segmentation by Type:

Pancake Susceptor

Barrel Susceptor

Other

Global LED Silicon Carbide Carrier Market, Segmentation by Coating Thickness:

Thin Coating 20?100 ?m

Medium Coating >100?300 ?m

Thick Coating >300?500 ?m

Global LED Silicon Carbide Carrier Market, Segmentation by Wafer Size:

4 Inch and Below

6 Inch

8 Inch and Above

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

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