

Global LED SiC Coated Graphite Susceptors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LED SiC Coated Graphite Susceptors market size was valued at US\$ 259 million in 2025 and is forecast to a readjusted size of US\$ 446 million by 2032 with a CAGR of 8.1% during review period.

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 is a detailed and comprehensive analysis for global LED SiC Coated Graphite Susceptors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LED SiC Coated Graphite Susceptors market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global LED SiC Coated Graphite Susceptors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global LED SiC Coated Graphite Susceptors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global LED SiC Coated Graphite Susceptors market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for LED SiC Coated Graphite Susceptors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global LED SiC Coated Graphite Susceptors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

LED SiC Coated Graphite Susceptors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Pancake Susceptor

Barrel Susceptor

Other

Market segment by Coating Thickness

Thin Coating 20?100 ?m

Medium Coating >100?300 ?m

Thick Coating >300?500 ?m

Market segment by Wafer Size

4 Inch and Below

6 Inch

8 Inch and Above

Market segment by Application

Equipment Manufacturers

Wafer Manufacturers

Others

Major players covered

Toyo Tanso

SGL Carbon

Tokai Carbon

Mersen

Bay Carbon

CoorsTek

Schunk Xycarb Technology

ZhiCheng Semiconductor

Hunan Dezhi New Material

Zhejiang Liufang Semiconductor Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LED SiC Coated Graphite Susceptors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LED SiC Coated Graphite Susceptors, with price, sales quantity, revenue, and global market share of LED SiC Coated Graphite Susceptors from 2021 to 2026.

Chapter 3, the LED SiC Coated Graphite Susceptors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LED SiC Coated Graphite Susceptors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and LED SiC Coated Graphite Susceptors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LED SiC Coated Graphite Susceptors.

Chapter 14 and 15, to describe LED SiC Coated Graphite Susceptors sales channel, distributors, customers, research findings and conclusion.

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