+357 96 030922
info@marketpublishers.com

Global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G76D60BE8E3BEN.html
Date: January 2026
Pages: 109
Price: US$ 3,480.00 (Single User License)
ID: G76D60BE8E3BEN

Abstracts

According to our (Global Info Research) latest study, the global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component market size was valued at US$ 479 million in 2025 and is forecast to a readjusted size of US$ 1089 million by 2032 with a CAGR of 12.6% during review period.

Graphite components are critical structural and thermal elements used inside high-temperature crystal growth furnaces, particularly for growing silicon carbide (SiC) boules via methods like Physical Vapor Transport (PVT) or sublimation growth. These components must withstand temperatures above 2,000?C, maintain dimensional stability, and offer high purity and thermal conductivity.

With the outbreak of high-voltage, high-frequency, and high-temperature environment application scenarios such as new energy vehicles, photovoltaics, wind power, high-voltage power supplies, and 5G communications, the penetration rate of SiC devices has increased rapidly. The preparation process of its core material, silicon carbide single crystal, must rely on the high-temperature vapor phase sublimation method (PVT method). This process is highly dependent on graphite thermal field components (crucibles, insulation layers, heaters, etc.), which directly drives the growth of the supporting industry.

In order to adapt to the expansion of crystal growth size from 4 inches and 6 inches to 8 inches or even 12 inches, higher requirements are put forward for the processing accuracy, high temperature resistance, isostatic compactness, and thermal shock

+357 96 030922
info@marketpublishers.com

resistance of graphite components. In the future, graphite materials will continue to be optimized in the direction of high purity, high density, low porosity, and resistance to impurity pollution.

The rapid increase in the domestic production rate of SiC wafers, epitaxial wafers, devices, and modules has made the local industrial chain put forward stronger consistency and controllability requirements for supporting graphite components, forming a trend to promote the expansion of local supporting manufacturing capabilities of graphite thermal field materials.

SiC-MOSFET is more than 20% more efficient than Si IGBT, and has been widely introduced by Tesla, BYD, Weilai and other models. The explosion of crystal growth demand has driven the growth of thermal field graphite components. It is expected that 2024~2027 will be a high growth window period.

Crystal growth requires a larger and more stable thermal field system, and graphite components need to be highly matched with furnace type and heat flow simulation design, driving technical demand.

This report is a detailed and comprehensive analysis for global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite

+357 96 030922
info@marketpublishers.com

Component 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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component
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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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, Mersen, Tokai Carbon, Inner Mongolia JH Special Carbon Technology, Hangzhou Vulcan New Material Technology, Chengdu Artech Specialties Graphite, Liaoning Aoyida Advanced Materials, Shandong Weiji Carbon-tech, Northern Yiheng Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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

Crucible

+357 96 030922
info@marketpublishers.com

Insulation Materials

Heater

Guide Tube

Others

Market segment by Application

Replacement and Modification

OEM

Major players covered

TOYO TANSO

SGL Carbon

Mersen

Tokai Carbon

Inner Mongolia JH Special Carbon Technology

Hangzhou Vulcan New Material Technology

Chengdu Artech Specialties Graphite

Liaoning Aoyida Advanced Materials

Shandong Weiji Carbon-tech

Northern Yiheng Technology

Fangda Group

+357 96 030922
info@marketpublishers.com

GOLDSTONE

Ningbo Hongxin New Material Technology

SIAMC

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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component, with price, sales quantity, revenue, and global market share of Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component from 2021 to 2026.

Chapter 3, the Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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

+357 96 030922
info@marketpublishers.com

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component 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 Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component.

Chapter 14 and 15, to describe Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Wide Band Gap Semiconductors SiC Crystal Growth Furnace Graphite Component Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G76D60BE8E3BEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G76D60BE8E3BEN.html