

# Global Graphite Components for SiC Epitaxy Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Graphite Components for SiC Epitaxy market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Graphite components are essential components in the epitaxial growth of silicon carbide (SiC) materials. SiC epitaxy involves the deposition of a thin layer of SiC material onto a substrate surface to create a high-quality SiC layer for use in electronic and optical devices. Graphite components are used in SiC epitaxy due to their unique properties, including high thermal conductivity, chemical resistance, and low thermal expansion coefficient.

During the SiC epitaxy process, the substrate and SiC source materials are heated to high temperatures in a vacuum or inert gas environment. Graphite components are used to support the substrate and SiC source materials, as well as to provide a thermal buffer between the materials and the surrounding environment. Graphite also serves as a source of carbon, which is essential for the growth of the SiC layer.

The quality of the graphite components used in SiC epitaxy is critical for achieving high-quality SiC layers. The graphite must be free of impurities, such as metallic contaminants, which can affect the purity of the SiC layer. It must also be able to withstand high temperatures and thermal cycling without degrading or producing particles that could contaminate the SiC layer.

Graphite components for SiC epitaxy are typically manufactured using high-purity graphite materials, such as isostatic graphite or graphite with a high degree of anisotropy. These materials offer excellent thermal conductivity and chemical resistance and can withstand the high temperatures and thermal cycling of the SiC epitaxy process.

In conclusion, graphite components play a vital role in the epitaxial growth of high-quality SiC materials. They provide thermal stability and chemical resistance and serve as a source of carbon for the growth of the SiC layer. As the demand for SiC-based devices continues to grow, the quality and reliability of graphite components will become increasingly important to ensure the production of high-quality SiC materials.

This report is a detailed and comprehensive analysis for global Graphite Components for SiC Epitaxy 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 2023, are provided.

#### Key Features:

Global Graphite Components for SiC Epitaxy market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Graphite Components for SiC Epitaxy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Graphite Components for SiC Epitaxy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Graphite Components for SiC Epitaxy market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

#### 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 Graphite Components for SiC Epitaxy

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 Graphite Components for SiC Epitaxy 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 and Bay Carbon, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

## Market Segmentation

Graphite Components for SiC Epitaxy market is split by Type and by Application. For the period 2018-2029, 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

Susceptors

Heaters

Support Crucibles

Heat Shields

Insulating Components

### Market segment by Application

Power Component

Optoelectronics

Other

#### Major players covered

Toyo Tanso

SGL Carbon

Tokai Carbon

Mersen

Bay Carbon

CoorsTek

Schunk Xycarb Technology

Zhicheng Semiconductor

#### 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 Graphite Components for SiC Epitaxy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphite Components for SiC Epitaxy, with price, sales, revenue and global market share of Graphite Components for SiC Epitaxy from 2018 to 2023.

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

Chapter 4, the Graphite Components for SiC Epitaxy breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Graphite Components for SiC Epitaxy market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Graphite Components for SiC Epitaxy.

Chapter 14 and 15, to describe Graphite Components for SiC Epitaxy sales channel, distributors, customers, research findings and conclusion.

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