

Global Graphite Components for SiC Epitaxy Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Graphite Components for SiC Epitaxy market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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 studies the global Graphite Components for SiC Epitaxy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphite Components for SiC Epitaxy, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Graphite Components for SiC Epitaxy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Graphite Components for SiC Epitaxy total production and demand, 2018-2029, (K Units)

Global Graphite Components for SiC Epitaxy total production value, 2018-2029, (USD Million)

Global Graphite Components for SiC Epitaxy production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Graphite Components for SiC Epitaxy consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Graphite Components for SiC Epitaxy domestic production, consumption, key domestic manufacturers and share

Global Graphite Components for SiC Epitaxy production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Graphite Components for SiC Epitaxy production by Type, production, value,

CAGR, 2018-2029, (USD Million) & (K Units)

Global Graphite Components for SiC Epitaxy production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports 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, Bay Carbon, CoorsTek, Schunk Xycarb Technology and Zhicheng Semiconductor, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Graphite Components for SiC Epitaxy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Graphite Components for SiC Epitaxy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphite Components for SiC Epitaxy Market, Segmentation by Type

Susceptors

Heaters

Support Crucibles

Heat Shields

Insulating Components

Global Graphite Components for SiC Epitaxy Market, Segmentation by Application

Power Component

Optoelectronics

Other

Companies Profiled:

Toyo Tanso

SGL Carbon

Tokai Carbon

Mersen

Bay Carbon

CoorsTek

Schunk Xycarb Technology

Zhicheng Semiconductor

Key Questions Answered

1. How big is the global Graphite Components for SiC Epitaxy market?
2. What is the demand of the global Graphite Components for SiC Epitaxy market?
3. What is the year over year growth of the global Graphite Components for SiC Epitaxy market?
4. What is the production and production value of the global Graphite Components for SiC Epitaxy market?
5. Who are the key producers in the global Graphite Components for SiC Epitaxy market?
6. What are the growth factors driving the market demand?

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