

# Global Silicon Carbide (Sic) in Semiconductor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide (Sic) in Semiconductor market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Due to its stable chemical properties, high thermal conductivity, small thermal expansion coefficient and good abrasion resistance, silicon carbide has many other USES besides abrasive. For example, it has become the research focus in recent years as a semiconductor material.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US\$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

The Global Info Research report includes an overview of the development of the Silicon Carbide (Sic) in Semiconductor industry chain, the market status of IT and Telecom (Power Product, Discrete Product), Aerospace and Defense (Power Product, Discrete Product), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide (Sic) in Semiconductor.

Regionally, the report analyzes the Silicon Carbide (SiC) in Semiconductor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Carbide (SiC) in Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Carbide (SiC) in Semiconductor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Carbide (SiC) in Semiconductor industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Power Product, Discrete Product).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Carbide (SiC) in Semiconductor market.

**Regional Analysis:** The report involves examining the Silicon Carbide (SiC) in Semiconductor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Silicon Carbide (SiC) in Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Carbide (SiC) in Semiconductor:

**Company Analysis:** Report covers individual Silicon Carbide (SiC) in Semiconductor

manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Silicon Carbide (Sic) in Semiconductor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (IT and Telecom, Aerospace and Defense).

**Technology Analysis:** Report covers specific technologies relevant to Silicon Carbide (Sic) in Semiconductor. It assesses the current state, advancements, and potential future developments in Silicon Carbide (Sic) in Semiconductor areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon Carbide (Sic) in Semiconductor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Silicon Carbide (Sic) in Semiconductor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Power Product

Discrete Product

### Market segment by Application

IT and Telecom

Aerospace and Defense

Industrial

Energy and Power

Electronics

Automotive

Healthcare

#### Major players covered

Norstel

Cree

Rohm

INFINEON

STMicroelectronics

TOSHIBA

Genesic Semiconductor

Fairchild Semiconductor

Microsemi

Renesas Electronics

#### 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 Silicon Carbide (Sic) in Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide (Sic) in Semiconductor, with price, sales, revenue and global market share of Silicon Carbide (Sic) in Semiconductor from 2019 to 2024.

Chapter 3, the Silicon Carbide (Sic) in Semiconductor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide (Sic) in Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and Silicon Carbide (Sic) in Semiconductor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Silicon Carbide (Sic) in Semiconductor.

Chapter 14 and 15, to describe Silicon Carbide (Sic) in Semiconductor sales channel, distributors, customers, research findings and conclusion.

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