

Global Silicon Carbide (SiC) Wafer 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) Wafer market size was valued at USD 772.2 million in 2023 and is forecast to a readjusted size of USD 1948.4 million by 2030 with a CAGR of 14.1% during review period.

SiC single crystal wafers have excellent heat resistance and voltage resistance compared to silicon wafers that are widely used for semiconductors. Sic single crystal wafers can remarkably reduce energy loss during electric power control, significantly contributing to the reduction of energy use and environmental stress. They are highly expected as substrate materials for the next-generation.

Global core silicon carbide (SiC) wafer manufacturers include Wolfspeed, Coherent, ROHM Group (SiCrystal), TankeBlue and SICC. The top five players hold a share about 80%. North America is the largest market, has a share about 45%, followed by Asia-Pacific and Europe, with share 34% and 22%, separately. In terms of product, 6 Inch is the largest segment, with a share over 65%. And in terms of application, the largest application is Power Device, followed by Electronics & Optoelectronics and Wireless Infrastructure.

The Global Info Research report includes an overview of the development of the Silicon Carbide (SiC) Wafer industry chain, the market status of Power Device (4 Inch, 6 Inch), Electronics & Optoelectronics (4 Inch, 6 Inch), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide (SiC) Wafer.

Regionally, the report analyzes the Silicon Carbide (SiC) Wafer 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) Wafer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon Carbide (SiC) Wafer 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) Wafer 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 Pcs), revenue generated, and market share of different by Type (e.g., 4 Inch, 6 Inch).

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) Wafer market.

Regional Analysis: The report involves examining the Silicon Carbide (SiC) Wafer 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) Wafer 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) Wafer:

Company Analysis: Report covers individual Silicon Carbide (SiC) Wafer 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) Wafer. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power Device, Electronics & Optoelectronics).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Carbide (SiC) Wafer 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) Wafer 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

4 Inch

6 Inch

8 Inch

Market segment by Application

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Others

Major players covered

Wolfspeed

SK Siltron

ROHM Group (SiCrystal)

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

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) Wafer product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Silicon Carbide (SiC) Wafer 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) Wafer 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) Wafer.

Chapter 14 and 15, to describe Silicon Carbide (SiC) Wafer sales channel, distributors, customers, research findings and conclusion.

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