

# **Global Silicon Carbide Market (by Product, Device Type and End-Use Industries): Insight, Trends and Forecast (2019-2023)**

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## **Abstracts**

The global silicon carbide market is expected to reach US\$3.07 billion in 2023, growing at a CAGR of 25.44%, for the duration spanning 2019-2023. The factors, such as, escalating production of automobiles, accelerating demand for consumer electronics, increasing production of smartphones, growing urbanization and rapid expansion of the steel industry are expected to drive the market. However, growth of the market would be challenged by defects in silicon carbide materials, challenges in designing SiC MOSFETs and issues in packaging silicon carbide power devices. A few notable trends include increasing electric vehicle stock, rising demand for EV charging stations and fast growth of chassis, body and safety system.

The global silicon industry is concentrated with radio frequency (RF) devices, used across various end-use industries. RF devices are highly demanded for the production several wireless gadgets including router, Bluetooth devices, FM radios, wireless talkies, and radars. Moreover, SiC power devices are also occupying the market with a considerable share, owing to the rising demand, particularly from automobiles and E&E industry.

The fastest growing regional market is China, owing to the expansion of certain end-markets that use silicon carbide materials for various purposes on a large scale. In addition, E&E industry is expanding vividly over years, contributing to SiC market significantly as the demand for SiC power devices is growing for the use in AC and DC high-voltage applications. Owing to such factors, China is likely to maintain a significant position in the global silicon carbide market in coming years.

Scope of the report:

The report provides a comprehensive analysis of the global silicon carbide market, further segmented on the basis of Product, Device Type and End-Use Industries.

The major regional market (China) has been analyzed.

The market dynamics such as growth drivers, market trends and challenges are analyzed in-depth.

The competitive landscape of the market, along with the company profiles of leading players Saint-Gobain, NXP Semiconductors, Infineon Technologies, Renesas Electronics, ROHM Semiconductor and Cree are also presented in detail.

#### Key Target Audience:

Silicon Carbide Manufacturers

Raw Material Suppliers

End Users (Automotive, Aerospace, E&E, Construction Military and Healthcare)

Industrial Consultants

Investment Banks

Government Bodies & Regulating Authorities

## Contents

### 1. OVERVIEW

- 1.1 Introduction
- 1.2 Advantages of Silicon Carbide
- 1.3 Silicon Carbide Engineering Properties
- 1.4 Silicon Carbide in End-Use Industry

### 2. GLOBAL MARKET ANALYSIS

- 2.1 Global Silicon Carbide Market by Value
- 2.2 Global Silicon Carbide Market Forecast by Value
- 2.3 Global Silicon Carbide Market by Product
  - 2.3.1 Global Black Silicon Carbide Market by Value
  - 2.3.2 Global Black Silicon Carbide Market Forecast by Value
  - 2.3.3 Global Green Silicon Carbide Market by Value
  - 2.3.4 Global Green Silicon Carbide Market Forecast by Value
- 2.4 Global Silicon Carbide Market by Device Type
  - 2.4.1 Global SiC Radio Frequency Devices Market Forecast by Value
  - 2.4.2 Global SiC Power Devices Market Forecast by Value
- 2.5 Global Silicon Carbide Market by End-Use Industries
  - 2.5.1 Global Automotive Silicon Carbide Market by Value
  - 2.5.2 Global Automotive Silicon Carbide Market Forecast by Value
  - 2.5.3 Global E&E Silicon Carbide Market by Value
  - 2.5.4 Global E&E Silicon Carbide Market Forecast by Value
  - 2.5.5 Global Military & Aerospace Silicon Carbide Market by Value
  - 2.5.6 Global Military & Aerospace Silicon Carbide Market Forecast by Value
  - 2.5.7 Global Construction Silicon Carbide Market by Value
  - 2.5.8 Global Construction Silicon Carbide Market Forecast by Value
  - 2.5.9 Global Healthcare Silicon Carbide Market by Value
  - 2.5.10 Global Healthcare Silicon Carbide Market Forecast by Value
- 2.6 Global Silicon Carbide Market by Volume
- 2.7 Global Silicon Carbide Market Forecast by Volume

### 3. REGIONAL MARKET ANALYSIS

- 3.1 China Silicon Carbide Market by Value
- 3.2 China Silicon Carbide Market Forecast by Value

### 3.3 China Silicon Carbide Market by End-Use Industries

- 3.3.1 China E&E Silicon Carbide Market by Value
- 3.3.2 China E&E Silicon Carbide Market Forecast by Value
- 3.3.3 China Aerospace Silicon Carbide Market by Value
- 3.3.4 China Aerospace Silicon Carbide Market Forecast by Value
- 3.3.5 China Steel Silicon Carbide Market by Value
- 3.3.6 China Steel Silicon Carbide Market Forecast by Value
- 3.3.7 China Automotive Silicon Carbide Market by Value
- 3.3.8 China Automotive Silicon Carbide Market Forecast by Value
- 3.3.9 China Military & Defense Silicon Carbide Market by Value
- 3.3.10 China Military & Defense Silicon Carbide Market Forecast by Value
- 3.3.11 China Healthcare Silicon Carbide Market by Value
- 3.3.12 China Healthcare Silicon Carbide Market Forecast by Value

## 4. MARKET DYNAMICS

### 4.1 Growth Drivers

- 4.1.1 Escalating Production of Automobiles
- 4.1.2 Accelerating Demand for Consumer Electronics
- 4.1.3 Increasing Production of Smartphone
- 4.1.4 Growing Urbanization
- 4.1.5 Rapid Expansion of steel Industry
- 4.1.6 Upsurge in Demand of Power Electronic Modules across Various Industry

### Verticals

### 4.2 Key Trends and Developments

- 4.2.1 Increasing Electric Vehicle Stock
- 4.2.2 Rising Demand for EV Charging Stations
- 4.2.3 Fast Growth of Chassis, Body & Safety Systems
- 4.2.4 Advent of 5G Mobile Communication

### 4.3 Challenges

- 4.3.1 Defects in Silicon Carbide Materials
- 4.3.2 Challenges in Designing SiC MOSFETs
- 4.3.3 Issues in Packaging Silicon Carbide Semiconductor Devices

## 5. COMPETITIVE LANDSCAPE

### 5.1 Global Market

- 5.1.1 Global Silicon Carbide Device Market Share by Key Players
- 5.1.2 Key Players – R&D Comparison

5.1.3 Key Players – Revenue Comparison

5.1.4 Key Players – Market Capitalization Comparison

## **6. COMPANY PROFILES**

### **6.1 Saint-Gobain**

6.1.1 Business Overview

6.1.2 Financial Overview

6.1.3 Business Strategies

### **6.2 NXP Semiconductors N.V.**

6.2.1 Business Overview

6.2.2 Financial Overview

6.2.3 Business Strategies

### **6.3 Infineon Technologies**

6.3.1 Business Overview

6.3.2 Financial Overview

6.3.3 Business Strategies

### **6.4 Renesas Electronics**

6.4.1 Business Overview

6.4.2 Financial Overview

6.4.3 Business Strategies

### **6.5 ROHM Semiconductors**

6.5.1 Business Overview

6.5.2 Financial Overview

6.5.3 Business Strategies

### **6.6 Cree Inc.**

6.6.1 Business Overview

6.6.2 Financial Overview

6.6.3 Business Strategies

## List Of Figures

### LIST OF FIGURES

Silicon Carbide in End-Use Industry

Global Silicon Carbide Market by Value (2014-2018)

Global Silicon Carbide Market Forecast by Value (2019-2023)

Global Silicon Carbide Market by Product (2018)

Global Black Silicon Carbide Market by Value (2014-2018)

Global Black Silicon Carbide Market Forecast by Value (2019-2023)

Global Green Silicon Carbide Market by Value (2014-2018)

Global Green Silicon Carbide Market Forecast by Value (2019-2023)

Global Silicon Carbide Market by Devices Type (2018)

Global SiC Radio Frequency Device Market Forecast by Value (2018-2023)

Global SiC Power Devices Market Forecast by Value (2018-2023)

Global Silicon Carbide Market by End-Use Industries (2018)

Global Automotive Silicon Carbide Market by Value (2014-2018)

Global Automotive Silicon Carbide Market Forecast by Value (2019-2023)

Global E&E Silicon Carbide Market by Value (2014-2018)

Global E&E Silicon Carbide Market Forecast by Value (2019-2023)

Global Military & Aerospace Silicon Carbide Market by Value (2014-2018)

Global Military & Aerospace Silicon Carbide Market Forecast by Value (2019-2023)

Global Construction Silicon Carbide Market by Value (2014-2018)

Global Construction Silicon Carbide Market Forecast by Value (2019-2023)

Global Healthcare Silicon Carbide Market by Value (2014-2018)

Global Healthcare Silicon Carbide Market Forecast by Value (2019-2023)

Global Silicon Carbide Market by Volume (2014-2018)

Global Silicon Carbide Market Forecast by Volume (2019-2023)

China Silicon Carbide Market by Value (2014-2018)

China Silicon Carbide Market Forecast by Value (2019-2023)

China Silicon Carbide Market by End-Use Industries (2018)

China E&E Silicon Carbide Market by Value (2014-2018)

China E&E Silicon Carbide Market Forecast by Value (2019-2023)

China Aerospace Silicon Carbide Market by Value (2014-2018)

China Aerospace Silicon Carbide Market Forecast by Value (2019-2023)

China Steel Silicon Carbide Market by Value (2014-2018)

China Steel Silicon Carbide Market Forecast by Value (2019-2023)

China Automotive Silicon Carbide Market by Value (2014-2018)

China Automotive Silicon Carbide Market Forecast by Value (2019-2023)

China Military & Defense Silicon Carbide Market by Value (2014-2018)  
China Military & Defense Silicon Carbide Market Forecast by Value (2019-2023)  
China Healthcare Silicon Carbide Market by Value (2014-2018)  
China Healthcare Silicon Carbide Market Forecast by Value (2019-2023)  
Global Cars and Commercial Vehicles Production (2014-2018)  
Global Consumer Electronic Sales (2014-2018)  
Global Smartphone Production Forecast (2015-2021)  
Global Urban Population (2014-2018)  
Global Crude Steel Production (2014-2018)  
Global Electric Vehicle Stock (2014-2018)  
Global EV Charging Station Demand Forecast (2018-2023)  
Global Chassis, Body & Safety Systems Production Growth Rate (2018 & 2023)  
Global Silicon Carbide Device Market Share by Key Players (2018/2023)  
Saint-Gobain Net Sales and Net Income (2014-2018)  
Saint-Gobain Net Sales by Segment (2018)  
Saint-Gobain Net Sales by Regions (2018)  
NXP Semiconductors N.V. Revenue and Net Income (2014-2018)  
NXP Semiconductors N.V. Revenue by segments (2018)  
NXP Semiconductors N.V. Revenue by Region (2018)  
Infineon Technologies Revenue and Net Income (2014-2018)  
Infineon Technologies Revenue by segments (2018)  
Infineon Technologies Revenue by Region (2018)  
Renesas Electronics Revenue and Profit of the year (2014-2018)  
Renesas Electronics Revenue by Divisions (2018)  
Renesas Electronics Revenue by Regions (2018)  
ROHM Semiconductor Net Sales and Net Income (2015-2019)  
ROHM Semiconductor Net Sales by Products (2019)  
ROHM Semiconductor Net Sales by Region (2019)  
Cree Inc. Revenue and Net Loss (2015-2019)  
Cree Inc. Revenue by Segments (2019)  
Cree Inc. Revenue by Region (2019)

## List Of Tables

### LIST OF TABLES

Silicon Carbide Engineering Properties

Key Players – R&D Comparison (2018/2019)

Key Players – Revenue Comparison (2018/2019)

Key Players – Market Capitalization Comparison (2019)



## I would like to order

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