

# Global Silicon Carbide (SiC) Wafer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide (SiC) Wafer market size was valued at US\$ 1254 million in 2024 and is forecast to a readjusted size of USD 3187 million by 2031 with a CAGR of 14.4% during review period.

Silicon carbide is an inorganic substance with the chemical formula SiC. It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand. Wafer refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single wafer with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide wafer is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume. According to different electrical properties, silicon carbide wafer can be divided into two categories: semi-insulating silicon carbide wafer and conductive silicon carbide wafer. These two types of wafer are clearly used to manufacture discrete devices such as power devices and radio frequency devices after epitaxial growth. At present, 6-inch SiC wafer still

occupy the mainstream market, but 8-inch wafer are gradually penetrating. Compared with 6-inch wafer, the cost of 8-inch SiC wafer can be reduced by about 35%, and more wafers can be cut out with less edge waste, which greatly improves the effective utilization of materials. Therefore, domestic and foreign manufacturers are accelerating research and development, expanding production, and entering the 8-inch silicon carbide market.

From the perspective of the global silicon carbide wafer material market, Wolfspeed, Coherent, Rohm, etc. still occupy a dominant position in the industry. However, in recent years, my country's silicon carbide material market has also been very hot. Wafer manufacturers such as CETC, TankeBlue, SICC, Hebei Synlight Crystal, and Sanan Optoelectronics have all achieved mass production. From the perspective of the terminal market, the demand for silicon carbide remains strong, whether in automobiles, photovoltaics, or industry. As the first car company in the industry to apply silicon carbide on a large scale, Tesla's Model 3 and Model Y models are selling well. In 2023, the penetration rate of silicon carbide in the field of pure electric passenger vehicles will be 25%, of which Model 3 and Model Y will contribute 60% to 70%. At the same time, driven by new car-making forces at home and abroad, the market structure of silicon carbide is gradually becoming diversified. In 2023, there will be a number of standard silicon carbide models in the price range of 200,000 to 250,000 yuan, such as Xiaopeng G6, Zeekr X, and Zhiji LS6. The high-performance strategy of new car companies is accelerating the market penetration of silicon carbide. In the future, all models with a price of more than 200,000 yuan may be equipped with silicon carbide devices as standard. Not only new energy vehicles, but also charging piles, photovoltaics, and industrial markets have great potential demand for silicon carbide. Wind, solar, storage, and industrial demand are also gradually increasing the application of silicon carbide devices and modules to cope with high-frequency, small-volume, and energy-saving scenarios, and the application scale is also considerable.

This report is a detailed and comprehensive analysis for global Silicon Carbide (SiC) Wafer 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 2025, are provided.

**Key Features:**

Global Silicon Carbide (SiC) Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Silicon Carbide (SiC) Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Silicon Carbide (SiC) Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2020-2031

Global Silicon Carbide (SiC) Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (USD/Pcs), 2020-2025

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 Silicon Carbide (SiC) Wafer

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 Silicon Carbide (SiC) Wafer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, SK Siltron, ROHM Group (SiCrystal), Coherent, Resonac, STMicroelectronics, TankeBlue, SICC, Hebei Synlight Crystal, CETC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Silicon Carbide (SiC) Wafer market is split by Type and by Application. For the period 2020-2031, 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

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 quantity, revenue, and global market share of Silicon Carbide (SiC) Wafer from 2020 to 2025.

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 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Silicon Carbide (SiC) Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Overview and Scope

#### 1.2 Market Estimation Caveats and Base Year

#### 1.3 Market Analysis by Type

##### 1.3.1 Overview: Global Silicon Carbide (SiC) Wafer Consumption Value by Type: 2020 Versus 2024 Versus 2031

##### 1.3.2 4 Inch

##### 1.3.3 6 Inch

##### 1.3.4 8 Inch

#### 1.4 Market Analysis by Application

##### 1.4.1 Overview: Global Silicon Carbide (SiC) Wafer Consumption Value by Application: 2020 Versus 2024 Versus 2031

##### 1.4.2 Power Device

##### 1.4.3 Electronics & Optoelectronics

##### 1.4.4 Wireless Infrastructure

##### 1.4.5 Others

#### 1.5 Global Silicon Carbide (SiC) Wafer Market Size & Forecast

##### 1.5.1 Global Silicon Carbide (SiC) Wafer Consumption Value (2020 & 2024 & 2031)

##### 1.5.2 Global Silicon Carbide (SiC) Wafer Sales Quantity (2020-2031)

##### 1.5.3 Global Silicon Carbide (SiC) Wafer Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

#### 2.1 Wolfspeed

##### 2.1.1 Wolfspeed Details

##### 2.1.2 Wolfspeed Major Business

##### 2.1.3 Wolfspeed Silicon Carbide (SiC) Wafer Product and Services

##### 2.1.4 Wolfspeed Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

##### 2.1.5 Wolfspeed Recent Developments/Updates

#### 2.2 SK Siltron

##### 2.2.1 SK Siltron Details

##### 2.2.2 SK Siltron Major Business

##### 2.2.3 SK Siltron Silicon Carbide (SiC) Wafer Product and Services

##### 2.2.4 SK Siltron Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)



- 2.2.5 SK Siltron Recent Developments/Updates
- 2.3 ROHM Group (SiCrystal)
  - 2.3.1 ROHM Group (SiCrystal) Details
  - 2.3.2 ROHM Group (SiCrystal) Major Business
  - 2.3.3 ROHM Group (SiCrystal) Silicon Carbide (SiC) Wafer Product and Services
  - 2.3.4 ROHM Group (SiCrystal) Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.3.5 ROHM Group (SiCrystal) Recent Developments/Updates
- 2.4 Coherent
  - 2.4.1 Coherent Details
  - 2.4.2 Coherent Major Business
  - 2.4.3 Coherent Silicon Carbide (SiC) Wafer Product and Services
  - 2.4.4 Coherent Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.4.5 Coherent Recent Developments/Updates
- 2.5 Resonac
  - 2.5.1 Resonac Details
  - 2.5.2 Resonac Major Business
  - 2.5.3 Resonac Silicon Carbide (SiC) Wafer Product and Services
  - 2.5.4 Resonac Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.5.5 Resonac Recent Developments/Updates
- 2.6 STMicroelectronics
  - 2.6.1 STMicroelectronics Details
  - 2.6.2 STMicroelectronics Major Business
  - 2.6.3 STMicroelectronics Silicon Carbide (SiC) Wafer Product and Services
  - 2.6.4 STMicroelectronics Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.6.5 STMicroelectronics Recent Developments/Updates
- 2.7 TankeBlue
  - 2.7.1 TankeBlue Details
  - 2.7.2 TankeBlue Major Business
  - 2.7.3 TankeBlue Silicon Carbide (SiC) Wafer Product and Services
  - 2.7.4 TankeBlue Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.7.5 TankeBlue Recent Developments/Updates
- 2.8 SICC
  - 2.8.1 SICC Details
  - 2.8.2 SICC Major Business



- 2.8.3 SICC Silicon Carbide (SiC) Wafer Product and Services
- 2.8.4 SICC Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 SICC Recent Developments/Updates
- 2.9 Hebei Synlight Crystal
  - 2.9.1 Hebei Synlight Crystal Details
  - 2.9.2 Hebei Synlight Crystal Major Business
  - 2.9.3 Hebei Synlight Crystal Silicon Carbide (SiC) Wafer Product and Services
  - 2.9.4 Hebei Synlight Crystal Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.9.5 Hebei Synlight Crystal Recent Developments/Updates
- 2.10 CETC
  - 2.10.1 CETC Details
  - 2.10.2 CETC Major Business
  - 2.10.3 CETC Silicon Carbide (SiC) Wafer Product and Services
  - 2.10.4 CETC Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.10.5 CETC Recent Developments/Updates
- 2.11 San'an Optoelectronics
  - 2.11.1 San'an Optoelectronics Details
  - 2.11.2 San'an Optoelectronics Major Business
  - 2.11.3 San'an Optoelectronics Silicon Carbide (SiC) Wafer Product and Services
  - 2.11.4 San'an Optoelectronics Silicon Carbide (SiC) Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.11.5 San'an Optoelectronics Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SILICON CARBIDE (SiC) WAFER BY MANUFACTURER**

- 3.1 Global Silicon Carbide (SiC) Wafer Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Silicon Carbide (SiC) Wafer Revenue by Manufacturer (2020-2025)
- 3.3 Global Silicon Carbide (SiC) Wafer Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
  - 3.4.1 Producer Shipments of Silicon Carbide (SiC) Wafer by Manufacturer Revenue (\$MM) and Market Share (%): 2024
  - 3.4.2 Top 3 Silicon Carbide (SiC) Wafer Manufacturer Market Share in 2024
  - 3.4.3 Top 6 Silicon Carbide (SiC) Wafer Manufacturer Market Share in 2024
- 3.5 Silicon Carbide (SiC) Wafer Market: Overall Company Footprint Analysis
  - 3.5.1 Silicon Carbide (SiC) Wafer Market: Region Footprint

- 3.5.2 Silicon Carbide (SiC) Wafer Market: Company Product Type Footprint
- 3.5.3 Silicon Carbide (SiC) Wafer Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Silicon Carbide (SiC) Wafer Market Size by Region
  - 4.1.1 Global Silicon Carbide (SiC) Wafer Sales Quantity by Region (2020-2031)
  - 4.1.2 Global Silicon Carbide (SiC) Wafer Consumption Value by Region (2020-2031)
  - 4.1.3 Global Silicon Carbide (SiC) Wafer Average Price by Region (2020-2031)
- 4.2 North America Silicon Carbide (SiC) Wafer Consumption Value (2020-2031)
- 4.3 Europe Silicon Carbide (SiC) Wafer Consumption Value (2020-2031)
- 4.4 Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value (2020-2031)
- 4.5 South America Silicon Carbide (SiC) Wafer Consumption Value (2020-2031)
- 4.6 Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2031)
- 5.2 Global Silicon Carbide (SiC) Wafer Consumption Value by Type (2020-2031)
- 5.3 Global Silicon Carbide (SiC) Wafer Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2031)
- 6.2 Global Silicon Carbide (SiC) Wafer Consumption Value by Application (2020-2031)
- 6.3 Global Silicon Carbide (SiC) Wafer Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

- 7.1 North America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2031)
- 7.2 North America Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2031)
- 7.3 North America Silicon Carbide (SiC) Wafer Market Size by Country
  - 7.3.1 North America Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2031)
  - 7.3.2 North America Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2031)

8.2 Europe Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2031)

8.3 Europe Silicon Carbide (SiC) Wafer Market Size by Country

8.3.1 Europe Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2031)

8.3.2 Europe Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Silicon Carbide (SiC) Wafer Market Size by Region

9.3.1 Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value by Region  
(2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

## **10 SOUTH AMERICA**

10.1 South America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2031)

10.2 South America Silicon Carbide (SiC) Wafer Sales Quantity by Application  
(2020-2031)

10.3 South America Silicon Carbide (SiC) Wafer Market Size by Country

10.3.1 South America Silicon Carbide (SiC) Wafer Sales Quantity by Country

(2020-2031)

10.3.2 South America Silicon Carbide (SiC) Wafer Consumption Value by Country

(2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Type

(2020-2031)

11.2 Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Application

(2020-2031)

11.3 Middle East & Africa Silicon Carbide (SiC) Wafer Market Size by Country

11.3.1 Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Country  
(2020-2031)

11.3.2 Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value by  
Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

12.1 Silicon Carbide (SiC) Wafer Market Drivers

12.2 Silicon Carbide (SiC) Wafer Market Restraints

12.3 Silicon Carbide (SiC) Wafer Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Silicon Carbide (SiC) Wafer and Key Manufacturers

13.2 Manufacturing Costs Percentage of Silicon Carbide (SiC) Wafer

13.3 Silicon Carbide (SiC) Wafer Production Process

## 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

### 14.1 Sales Channel

#### 14.1.1 Direct to End-User

#### 14.1.2 Distributors

### 14.2 Silicon Carbide (SiC) Wafer Typical Distributors

### 14.3 Silicon Carbide (SiC) Wafer Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

### 16.1 Methodology

### 16.2 Research Process and Data Source

### 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Silicon Carbide (SiC) Wafer Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Silicon Carbide (SiC) Wafer Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 4. Wolfspeed Major Business

Table 5. Wolfspeed Silicon Carbide (SiC) Wafer Product and Services

Table 6. Wolfspeed Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Wolfspeed Recent Developments/Updates

Table 8. SK Siltron Basic Information, Manufacturing Base and Competitors

Table 9. SK Siltron Major Business

Table 10. SK Siltron Silicon Carbide (SiC) Wafer Product and Services

Table 11. SK Siltron Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. SK Siltron Recent Developments/Updates

Table 13. ROHM Group (SiCrystal) Basic Information, Manufacturing Base and Competitors

Table 14. ROHM Group (SiCrystal) Major Business

Table 15. ROHM Group (SiCrystal) Silicon Carbide (SiC) Wafer Product and Services

Table 16. ROHM Group (SiCrystal) Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. ROHM Group (SiCrystal) Recent Developments/Updates

Table 18. Coherent Basic Information, Manufacturing Base and Competitors

Table 19. Coherent Major Business

Table 20. Coherent Silicon Carbide (SiC) Wafer Product and Services

Table 21. Coherent Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Coherent Recent Developments/Updates

Table 23. Resonac Basic Information, Manufacturing Base and Competitors

Table 24. Resonac Major Business

Table 25. Resonac Silicon Carbide (SiC) Wafer Product and Services

Table 26. Resonac Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)



Table 27. Resonac Recent Developments/Updates

Table 28. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 29. STMicroelectronics Major Business

Table 30. STMicroelectronics Silicon Carbide (SiC) Wafer Product and Services

Table 31. STMicroelectronics Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. STMicroelectronics Recent Developments/Updates

Table 33. TankeBlue Basic Information, Manufacturing Base and Competitors

Table 34. TankeBlue Major Business

Table 35. TankeBlue Silicon Carbide (SiC) Wafer Product and Services

Table 36. TankeBlue Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. TankeBlue Recent Developments/Updates

Table 38. SICC Basic Information, Manufacturing Base and Competitors

Table 39. SICC Major Business

Table 40. SICC Silicon Carbide (SiC) Wafer Product and Services

Table 41. SICC Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. SICC Recent Developments/Updates

Table 43. Hebei Synlight Crystal Basic Information, Manufacturing Base and Competitors

Table 44. Hebei Synlight Crystal Major Business

Table 45. Hebei Synlight Crystal Silicon Carbide (SiC) Wafer Product and Services

Table 46. Hebei Synlight Crystal Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Hebei Synlight Crystal Recent Developments/Updates

Table 48. CETC Basic Information, Manufacturing Base and Competitors

Table 49. CETC Major Business

Table 50. CETC Silicon Carbide (SiC) Wafer Product and Services

Table 51. CETC Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs), Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. CETC Recent Developments/Updates

Table 53. San'an Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 54. San'an Optoelectronics Major Business

Table 55. San'an Optoelectronics Silicon Carbide (SiC) Wafer Product and Services

Table 56. San'an Optoelectronics Silicon Carbide (SiC) Wafer Sales Quantity (K Pcs),



Average Price (USD/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. San'an Optoelectronics Recent Developments/Updates

Table 58. Global Silicon Carbide (SiC) Wafer Sales Quantity by Manufacturer (2020-2025) & (K Pcs)

Table 59. Global Silicon Carbide (SiC) Wafer Revenue by Manufacturer (2020-2025) & (USD Million)

Table 60. Global Silicon Carbide (SiC) Wafer Average Price by Manufacturer (2020-2025) & (USD/Pcs)

Table 61. Market Position of Manufacturers in Silicon Carbide (SiC) Wafer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 62. Head Office and Silicon Carbide (SiC) Wafer Production Site of Key Manufacturer

Table 63. Silicon Carbide (SiC) Wafer Market: Company Product Type Footprint

Table 64. Silicon Carbide (SiC) Wafer Market: Company Product Application Footprint

Table 65. Silicon Carbide (SiC) Wafer New Market Entrants and Barriers to Market Entry

Table 66. Silicon Carbide (SiC) Wafer Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global Silicon Carbide (SiC) Wafer Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 68. Global Silicon Carbide (SiC) Wafer Sales Quantity by Region (2020-2025) & (K Pcs)

Table 69. Global Silicon Carbide (SiC) Wafer Sales Quantity by Region (2026-2031) & (K Pcs)

Table 70. Global Silicon Carbide (SiC) Wafer Consumption Value by Region (2020-2025) & (USD Million)

Table 71. Global Silicon Carbide (SiC) Wafer Consumption Value by Region (2026-2031) & (USD Million)

Table 72. Global Silicon Carbide (SiC) Wafer Average Price by Region (2020-2025) & (USD/Pcs)

Table 73. Global Silicon Carbide (SiC) Wafer Average Price by Region (2026-2031) & (USD/Pcs)

Table 74. Global Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 75. Global Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 76. Global Silicon Carbide (SiC) Wafer Consumption Value by Type (2020-2025) & (USD Million)

Table 77. Global Silicon Carbide (SiC) Wafer Consumption Value by Type (2026-2031) & (USD Million)

Table 78. Global Silicon Carbide (SiC) Wafer Average Price by Type (2020-2025) & (USD/Pcs)

Table 79. Global Silicon Carbide (SiC) Wafer Average Price by Type (2026-2031) & (USD/Pcs)

Table 80. Global Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 81. Global Silicon Carbide (SiC) Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 82. Global Silicon Carbide (SiC) Wafer Consumption Value by Application (2020-2025) & (USD Million)

Table 83. Global Silicon Carbide (SiC) Wafer Consumption Value by Application (2026-2031) & (USD Million)

Table 84. Global Silicon Carbide (SiC) Wafer Average Price by Application (2020-2025) & (USD/Pcs)

Table 85. Global Silicon Carbide (SiC) Wafer Average Price by Application (2026-2031) & (USD/Pcs)

Table 86. North America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 87. North America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 88. North America Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 89. North America Silicon Carbide (SiC) Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 90. North America Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 91. North America Silicon Carbide (SiC) Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 92. North America Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 93. North America Silicon Carbide (SiC) Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 94. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 95. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 96. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Application

(2020-2025) & (K Pcs)

Table 97. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Application

(2026-2031) & (K Pcs)

Table 98. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 99. Europe Silicon Carbide (SiC) Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 100. Europe Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 101. Europe Silicon Carbide (SiC) Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 102. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 103. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 104. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 105. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 106. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Region (2020-2025) & (K Pcs)

Table 107. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity by Region (2026-2031) & (K Pcs)

Table 108. Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value by Region (2020-2025) & (USD Million)

Table 109. Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value by Region (2026-2031) & (USD Million)

Table 110. South America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 111. South America Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 112. South America Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 113. South America Silicon Carbide (SiC) Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 114. South America Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 115. South America Silicon Carbide (SiC) Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 116. South America Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 117. South America Silicon Carbide (SiC) Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 118. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 119. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 120. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 121. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 122. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 123. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 124. Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 125. Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 126. Silicon Carbide (SiC) Wafer Raw Material

Table 127. Key Manufacturers of Silicon Carbide (SiC) Wafer Raw Materials

Table 128. Silicon Carbide (SiC) Wafer Typical Distributors

Table 129. Silicon Carbide (SiC) Wafer Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Silicon Carbide (SiC) Wafer Picture

Figure 2. Global Silicon Carbide (SiC) Wafer Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Silicon Carbide (SiC) Wafer Revenue Market Share by Type in 2024

Figure 4. 4 Inch Examples

Figure 5. 6 Inch Examples

Figure 6. 8 Inch Examples

Figure 7. Global Silicon Carbide (SiC) Wafer Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Silicon Carbide (SiC) Wafer Revenue Market Share by Application in 2024

Figure 9. Power Device Examples

Figure 10. Electronics & Optoelectronics Examples

Figure 11. Wireless Infrastructure Examples

Figure 12. Others Examples

Figure 13. Global Silicon Carbide (SiC) Wafer Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Silicon Carbide (SiC) Wafer Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Silicon Carbide (SiC) Wafer Sales Quantity (2020-2031) & (K Pcs)

Figure 16. Global Silicon Carbide (SiC) Wafer Price (2020-2031) & (USD/Pcs)

Figure 17. Global Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Silicon Carbide (SiC) Wafer Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Silicon Carbide (SiC) Wafer by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Silicon Carbide (SiC) Wafer Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Silicon Carbide (SiC) Wafer Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Silicon Carbide (SiC) Wafer Consumption Value Market Share by Region (2020-2031)

- Figure 24. North America Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 25. Europe Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 26. Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 27. South America Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 28. Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 29. Global Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)
- Figure 30. Global Silicon Carbide (SiC) Wafer Consumption Value Market Share by Type (2020-2031)
- Figure 31. Global Silicon Carbide (SiC) Wafer Average Price by Type (2020-2031) & (USD/Pcs)
- Figure 32. Global Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Application (2020-2031)
- Figure 33. Global Silicon Carbide (SiC) Wafer Revenue Market Share by Application (2020-2031)
- Figure 34. Global Silicon Carbide (SiC) Wafer Average Price by Application (2020-2031) & (USD/Pcs)
- Figure 35. North America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)
- Figure 36. North America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Application (2020-2031)
- Figure 37. North America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Country (2020-2031)
- Figure 38. North America Silicon Carbide (SiC) Wafer Consumption Value Market Share by Country (2020-2031)
- Figure 39. United States Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 40. Canada Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 41. Mexico Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)
- Figure 42. Europe Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)
- Figure 43. Europe Silicon Carbide (SiC) Wafer Sales Quantity Market Share by



Application (2020-2031)

Figure 44. Europe Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Silicon Carbide (SiC) Wafer Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 47. France Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Silicon Carbide (SiC) Wafer Consumption Value Market Share by Region (2020-2031)

Figure 55. China Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 58. India Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Application (2020-2031)



Figure 63. South America Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Silicon Carbide (SiC) Wafer Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Silicon Carbide (SiC) Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Silicon Carbide (SiC) Wafer Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Silicon Carbide (SiC) Wafer Consumption Value (2020-2031) & (USD Million)

Figure 75. Silicon Carbide (SiC) Wafer Market Drivers

Figure 76. Silicon Carbide (SiC) Wafer Market Restraints

Figure 77. Silicon Carbide (SiC) Wafer Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Silicon Carbide (SiC) Wafer in 2024

Figure 80. Manufacturing Process Analysis of Silicon Carbide (SiC) Wafer

Figure 81. Silicon Carbide (SiC) Wafer Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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