

Global 4 & 6 Inch 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 4 & 6 Inch SiC Wafer market size was valued at US\$ 1233 million in 2024 and is forecast to a readjusted size of USD 2901 million by 2031 with a CAGR of 13.2% 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.

4-inch silicon carbide wafer refers to a silicon carbide single crystal wafer with a diameter of 100mm. This wafer has many excellent physical and chemical properties, making it widely used in the manufacture of electronic devices. As the size of silicon carbide wafers continues to expand, 6-inch wafers will become the mainstream. 6-inch silicon carbide wafers refer to silicon carbide single crystal wafers with a diameter of 150mm.

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 4 & 6 Inch 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 4 & 6 Inch SiC Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global 4 & 6 Inch SiC Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global 4 & 6 Inch SiC Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global 4 & 6 Inch SiC Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/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 4 & 6 Inch SiC Wafer
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global 4 & 6 Inch 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

4 & 6 Inch 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 SiC Wafer

6 Inch SiC Wafer

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 4 & 6 Inch SiC Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4 & 6 Inch SiC Wafer, with price, sales quantity, revenue, and global market share of 4 & 6 Inch SiC Wafer from 2020 to 2025.

Chapter 3, the 4 & 6 Inch SiC Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4 & 6 Inch 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 4 & 6 Inch 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 4 & 6 Inch

SiC Wafer.

Chapter 14 and 15, to describe 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 4 Inch SiC Wafer

1.3.3 6 Inch SiC Wafer

1.4 Market Analysis by Application

1.4.1 Overview: Global 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Market Size & Forecast

1.5.1 Global 4 & 6 Inch SiC Wafer Consumption Value (2020 & 2024 & 2031)

1.5.2 Global 4 & 6 Inch SiC Wafer Sales Quantity (2020-2031)

1.5.3 Global 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.1.4 Wolfspeed 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.2.4 SK Siltron 4 & 6 Inch 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) 4 & 6 Inch SiC Wafer Product and Services

2.3.4 ROHM Group (SiCrystal) 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.4.4 Coherent 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.5.4 Resonac 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.6.4 STMicroelectronics 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.7.4 TankeBlue 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.8.4 SICC 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.9.4 Hebei Synlight Crystal 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.10.4 CETC 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

2.11.4 San'an Optoelectronics 4 & 6 Inch 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: 4 & 6 INCH SiC WAFER BY MANUFACTURER

3.1 Global 4 & 6 Inch SiC Wafer Sales Quantity by Manufacturer (2020-2025)

3.2 Global 4 & 6 Inch SiC Wafer Revenue by Manufacturer (2020-2025)

3.3 Global 4 & 6 Inch SiC Wafer Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of 4 & 6 Inch SiC Wafer by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 4 & 6 Inch SiC Wafer Manufacturer Market Share in 2024

3.4.3 Top 6 4 & 6 Inch SiC Wafer Manufacturer Market Share in 2024

3.5 4 & 6 Inch SiC Wafer Market: Overall Company Footprint Analysis

3.5.1 4 & 6 Inch SiC Wafer Market: Region Footprint

3.5.2 4 & 6 Inch SiC Wafer Market: Company Product Type Footprint

3.5.3 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Market Size by Region
 - 4.1.1 Global 4 & 6 Inch SiC Wafer Sales Quantity by Region (2020-2031)
 - 4.1.2 Global 4 & 6 Inch SiC Wafer Consumption Value by Region (2020-2031)
 - 4.1.3 Global 4 & 6 Inch SiC Wafer Average Price by Region (2020-2031)
- 4.2 North America 4 & 6 Inch SiC Wafer Consumption Value (2020-2031)
- 4.3 Europe 4 & 6 Inch SiC Wafer Consumption Value (2020-2031)
- 4.4 Asia-Pacific 4 & 6 Inch SiC Wafer Consumption Value (2020-2031)
- 4.5 South America 4 & 6 Inch SiC Wafer Consumption Value (2020-2031)
- 4.6 Middle East & Africa 4 & 6 Inch SiC Wafer Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)
- 5.2 Global 4 & 6 Inch SiC Wafer Consumption Value by Type (2020-2031)
- 5.3 Global 4 & 6 Inch SiC Wafer Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2031)
- 6.2 Global 4 & 6 Inch SiC Wafer Consumption Value by Application (2020-2031)
- 6.3 Global 4 & 6 Inch SiC Wafer Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)
- 7.2 North America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2031)
- 7.3 North America 4 & 6 Inch SiC Wafer Market Size by Country
 - 7.3.1 North America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2031)
 - 7.3.2 North America 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)
- 8.2 Europe 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2031)
- 8.3 Europe 4 & 6 Inch SiC Wafer Market Size by Country
 - 8.3.1 Europe 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific 4 & 6 Inch SiC Wafer Market Size by Region
 - 9.3.1 Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)
- 10.2 South America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2031)
- 10.3 South America 4 & 6 Inch SiC Wafer Market Size by Country
 - 10.3.1 South America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2031)
 - 10.3.2 South America 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Application
(2020-2031)

11.3 Middle East & Africa 4 & 6 Inch SiC Wafer Market Size by Country

11.3.1 Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Country
(2020-2031)

11.3.2 Middle East & Africa 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Market Drivers

12.2 4 & 6 Inch SiC Wafer Market Restraints

12.3 4 & 6 Inch 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 4 & 6 Inch SiC Wafer and Key Manufacturers

13.2 Manufacturing Costs Percentage of 4 & 6 Inch SiC Wafer

13.3 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Typical Distributors

14.3 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global 4 & 6 Inch 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 4 & 6 Inch SiC Wafer Product and Services

Table 6. Wolfspeed 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services

Table 11. SK Siltron 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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) 4 & 6 Inch SiC Wafer Product and Services

Table 16. ROHM Group (SiCrystal) 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services

Table 21. Coherent 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services

Table 26. Resonac 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 31. STMicroelectronics 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 36. TankeBlue 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 41. SICC 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 46. Hebei Synlight Crystal 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 51. CETC 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/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 4 & 6 Inch SiC Wafer Product and Services
Table 56. San'an Optoelectronics 4 & 6 Inch SiC Wafer Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. San'an Optoelectronics Recent Developments/Updates
Table 58. Global 4 & 6 Inch SiC Wafer Sales Quantity by Manufacturer (2020-2025) & (K Pcs)
Table 59. Global 4 & 6 Inch SiC Wafer Revenue by Manufacturer (2020-2025) & (USD Million)
Table 60. Global 4 & 6 Inch SiC Wafer Average Price by Manufacturer (2020-2025) & (US\$/Pcs)
Table 61. Market Position of Manufacturers in 4 & 6 Inch SiC Wafer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
Table 62. Head Office and 4 & 6 Inch SiC Wafer Production Site of Key Manufacturer
Table 63. 4 & 6 Inch SiC Wafer Market: Company Product Type Footprint
Table 64. 4 & 6 Inch SiC Wafer Market: Company Product Application Footprint
Table 65. 4 & 6 Inch SiC Wafer New Market Entrants and Barriers to Market Entry
Table 66. 4 & 6 Inch SiC Wafer Mergers, Acquisition, Agreements, and Collaborations
Table 67. Global 4 & 6 Inch SiC Wafer Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
Table 68. Global 4 & 6 Inch SiC Wafer Sales Quantity by Region (2020-2025) & (K Pcs)
Table 69. Global 4 & 6 Inch SiC Wafer Sales Quantity by Region (2026-2031) & (K Pcs)
Table 70. Global 4 & 6 Inch SiC Wafer Consumption Value by Region (2020-2025) & (USD Million)
Table 71. Global 4 & 6 Inch SiC Wafer Consumption Value by Region (2026-2031) & (USD Million)
Table 72. Global 4 & 6 Inch SiC Wafer Average Price by Region (2020-2025) & (US\$/Pcs)
Table 73. Global 4 & 6 Inch SiC Wafer Average Price by Region (2026-2031) & (US\$/Pcs)
Table 74. Global 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)
Table 75. Global 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)
Table 76. Global 4 & 6 Inch SiC Wafer Consumption Value by Type (2020-2025) & (USD Million)
Table 77. Global 4 & 6 Inch SiC Wafer Consumption Value by Type (2026-2031) & (USD Million)
Table 78. Global 4 & 6 Inch SiC Wafer Average Price by Type (2020-2025) & (US\$/Pcs)
Table 79. Global 4 & 6 Inch SiC Wafer Average Price by Type (2026-2031) & (US\$/Pcs)
Table 80. Global 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)
Table 81. Global 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)
Table 82. Global 4 & 6 Inch SiC Wafer Consumption Value by Application (2020-2025)

& (USD Million)

Table 83. Global 4 & 6 Inch SiC Wafer Consumption Value by Application (2026-2031)

& (USD Million)

Table 84. Global 4 & 6 Inch SiC Wafer Average Price by Application (2020-2025) & (US\$/Pcs)

Table 85. Global 4 & 6 Inch SiC Wafer Average Price by Application (2026-2031) & (US\$/Pcs)

Table 86. North America 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 87. North America 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 88. North America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 89. North America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 90. North America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 91. North America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 92. North America 4 & 6 Inch SiC Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 93. North America 4 & 6 Inch SiC Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 94. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 95. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 96. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 97. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 98. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 99. Europe 4 & 6 Inch SiC Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 100. Europe 4 & 6 Inch SiC Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 101. Europe 4 & 6 Inch SiC Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 102. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 103. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 104. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 105. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 106. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Region (2020-2025) & (K Pcs)

Table 107. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity by Region (2026-2031) & (K Pcs)

Table 108. Asia-Pacific 4 & 6 Inch SiC Wafer Consumption Value by Region (2020-2025) & (USD Million)

Table 109. Asia-Pacific 4 & 6 Inch SiC Wafer Consumption Value by Region (2026-2031) & (USD Million)

Table 110. South America 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 111. South America 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 112. South America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 113. South America 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 114. South America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2020-2025) & (K Pcs)

Table 115. South America 4 & 6 Inch SiC Wafer Sales Quantity by Country (2026-2031) & (K Pcs)

Table 116. South America 4 & 6 Inch SiC Wafer Consumption Value by Country (2020-2025) & (USD Million)

Table 117. South America 4 & 6 Inch SiC Wafer Consumption Value by Country (2026-2031) & (USD Million)

Table 118. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Type (2020-2025) & (K Pcs)

Table 119. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Type (2026-2031) & (K Pcs)

Table 120. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Application (2020-2025) & (K Pcs)

Table 121. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Application (2026-2031) & (K Pcs)

Table 122. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Country

(2020-2025) & (K Pcs)

Table 123. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity by Country

(2026-2031) & (K Pcs)

Table 124. Middle East & Africa 4 & 6 Inch SiC Wafer Consumption Value by Country

(2020-2025) & (USD Million)

Table 125. Middle East & Africa 4 & 6 Inch SiC Wafer Consumption Value by Country

(2026-2031) & (USD Million)

Table 126. 4 & 6 Inch SiC Wafer Raw Material

Table 127. Key Manufacturers of 4 & 6 Inch SiC Wafer Raw Materials

Table 128. 4 & 6 Inch SiC Wafer Typical Distributors

Table 129. 4 & 6 Inch SiC Wafer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 4 & 6 Inch SiC Wafer Picture

Figure 2. Global 4 & 6 Inch SiC Wafer Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global 4 & 6 Inch SiC Wafer Revenue Market Share by Type in 2024

Figure 4. 4 Inch SiC Wafer Examples

Figure 5. 6 Inch SiC Wafer Examples

Figure 6. Global 4 & 6 Inch SiC Wafer Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global 4 & 6 Inch SiC Wafer Revenue Market Share by Application in 2024

Figure 8. Power Device Examples

Figure 9. Electronics & Optoelectronics Examples

Figure 10. Wireless Infrastructure Examples

Figure 11. Others Examples

Figure 12. Global 4 & 6 Inch SiC Wafer Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 13. Global 4 & 6 Inch SiC Wafer Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 14. Global 4 & 6 Inch SiC Wafer Sales Quantity (2020-2031) & (K Pcs)

Figure 15. Global 4 & 6 Inch SiC Wafer Price (2020-2031) & (US\$/Pcs)

Figure 16. Global 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Manufacturer in 2024

Figure 17. Global 4 & 6 Inch SiC Wafer Revenue Market Share by Manufacturer in 2024

Figure 18. Producer Shipments of 4 & 6 Inch SiC Wafer by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 19. Top 3 4 & 6 Inch SiC Wafer Manufacturer (Revenue) Market Share in 2024

Figure 20. Top 6 4 & 6 Inch SiC Wafer Manufacturer (Revenue) Market Share in 2024

Figure 21. Global 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Region (2020-2031)

Figure 22. Global 4 & 6 Inch SiC Wafer Consumption Value Market Share by Region (2020-2031)

Figure 23. North America 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 24. Europe 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 25. Asia-Pacific 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Million)

Figure 26. South America 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 27. Middle East & Africa 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 28. Global 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 29. Global 4 & 6 Inch SiC Wafer Consumption Value Market Share by Type (2020-2031)

Figure 30. Global 4 & 6 Inch SiC Wafer Average Price by Type (2020-2031) & (US\$/Pcs)

Figure 31. Global 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 32. Global 4 & 6 Inch SiC Wafer Revenue Market Share by Application (2020-2031)

Figure 33. Global 4 & 6 Inch SiC Wafer Average Price by Application (2020-2031) & (US\$/Pcs)

Figure 34. North America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 35. North America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 36. North America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 37. North America 4 & 6 Inch SiC Wafer Consumption Value Market Share by Country (2020-2031)

Figure 38. United States 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 39. Canada 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 40. Mexico 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 41. Europe 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 42. Europe 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 43. Europe 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 44. Europe 4 & 6 Inch SiC Wafer Consumption Value Market Share by Country (2020-2031)

Figure 45. Germany 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 46. France 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 48. Russia 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 51. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 52. Asia-Pacific 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Region (2020-2031)

Figure 53. Asia-Pacific 4 & 6 Inch SiC Wafer Consumption Value Market Share by Region (2020-2031)

Figure 54. China 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 55. Japan 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 56. South Korea 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 57. India 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 58. Southeast Asia 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 59. Australia 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 60. South America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 61. South America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 62. South America 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 63. South America 4 & 6 Inch SiC Wafer Consumption Value Market Share by Country (2020-2031)

Figure 64. Brazil 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 65. Argentina 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 66. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Type (2020-2031)

Figure 67. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Application (2020-2031)

Figure 68. Middle East & Africa 4 & 6 Inch SiC Wafer Sales Quantity Market Share by Country (2020-2031)

Figure 69. Middle East & Africa 4 & 6 Inch SiC Wafer Consumption Value Market Share by Country (2020-2031)

Figure 70. Turkey 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 71. Egypt 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 72. Saudi Arabia 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 73. South Africa 4 & 6 Inch SiC Wafer Consumption Value (2020-2031) & (USD Million)

Figure 74. 4 & 6 Inch SiC Wafer Market Drivers

Figure 75. 4 & 6 Inch SiC Wafer Market Restraints

Figure 76. 4 & 6 Inch SiC Wafer Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of 4 & 6 Inch SiC Wafer in 2024

Figure 79. Manufacturing Process Analysis of 4 & 6 Inch SiC Wafer

Figure 80. 4 & 6 Inch SiC Wafer Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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