

Global 6 Inch SiC Wafer Market Research Report 2026(Status and Outlook)

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Abstracts

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. 6-inch silicon carbide wafers are still the mainstream choice for companies today. From the demand side, 6-inch wafers are being commercialized and their prices have dropped significantly; from the supply side, most equipment manufacturers continue to expand their 6-inch wafer production capacity. 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.

The global 6 Inch SiC Wafer market size was estimated at USD 981.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 14.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 6 Inch SiC Wafer market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global 6 Inch SiC Wafer market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the 6 Inch SiC Wafer market.

Global 6 Inch SiC Wafer Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Wolfspeed
SK Siltron
ROHM Group (SiCrystal)
Coherent
Resonac
STMicroelectronics
TankeBlue
SICC
Hebei Synlight Crystal
CETC
San'an Optoelectronics

Market Segmentation (by Type)

Conductive SiC Wafer
Semi-Insulating SiC Wafer

Market Segmentation (by Application)

Power Device
Electronics & Optoelectronics
Wireless Infrastructure
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the 6 Inch SiC Wafer Market
Overview of the regional outlook of the 6 Inch SiC Wafer Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the 6

Inch SiC Wafer Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of 6 Inch SiC Wafer, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of 6 Inch SiC Wafer
- 1.2 Key Market Segments
 - 1.2.1 6 Inch SiC Wafer Segment by Type
 - 1.2.2 6 Inch SiC Wafer Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 6 INCH SiC WAFER MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global 6 Inch SiC Wafer Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global 6 Inch SiC Wafer Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 6 INCH SiC WAFER MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global 6 Inch SiC Wafer Product Life Cycle
- 3.3 Global 6 Inch SiC Wafer Sales by Manufacturers (2020-2025)
- 3.4 Global 6 Inch SiC Wafer Revenue Market Share by Manufacturers (2020-2025)
- 3.5 6 Inch SiC Wafer Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global 6 Inch SiC Wafer Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 6 Inch SiC Wafer Market Competitive Situation and Trends
 - 3.8.1 6 Inch SiC Wafer Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest 6 Inch SiC Wafer Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 6 INCH SiC WAFER INDUSTRY CHAIN ANALYSIS

- 4.1 6 Inch SiC Wafer Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF 6 INCH SiC WAFER MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global 6 Inch SiC Wafer Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to 6 Inch SiC Wafer Market
- 5.7 ESG Ratings of Leading Companies

6 6 INCH SiC WAFER MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global 6 Inch SiC Wafer Sales Market Share by Type (2020-2025)
- 6.3 Global 6 Inch SiC Wafer Market Size by Type (2020-2025)
- 6.4 Global 6 Inch SiC Wafer Price by Type (2020-2025)

7 6 INCH SiC WAFER MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 6 Inch SiC Wafer Market Sales by Application (2020-2025)
- 7.3 Global 6 Inch SiC Wafer Market Size (M USD) by Application (2020-2025)

7.4 Global 6 Inch SiC Wafer Sales Growth Rate by Application (2020-2025)

8 6 INCH SiC WAFER MARKET SALES BY REGION

8.1 Global 6 Inch SiC Wafer Sales by Region

8.1.1 Global 6 Inch SiC Wafer Sales by Region

8.1.2 Global 6 Inch SiC Wafer Sales Market Share by Region

8.2 Global 6 Inch SiC Wafer Market Size by Region

8.2.1 Global 6 Inch SiC Wafer Market Size by Region

8.2.2 Global 6 Inch SiC Wafer Market Size by Region

8.3 North America

8.3.1 North America 6 Inch SiC Wafer Sales by Country

8.3.2 North America 6 Inch SiC Wafer Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe 6 Inch SiC Wafer Sales by Country

8.4.2 Europe 6 Inch SiC Wafer Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific 6 Inch SiC Wafer Sales by Region

8.5.2 Asia Pacific 6 Inch SiC Wafer Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America 6 Inch SiC Wafer Sales by Country

8.6.2 South America 6 Inch SiC Wafer Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa 6 Inch SiC Wafer Sales by Region
- 8.7.2 Middle East and Africa 6 Inch SiC Wafer Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 6 INCH SiC WAFER MARKET PRODUCTION BY REGION

- 9.1 Global Production of 6 Inch SiC Wafer by Region(2020-2025)
- 9.2 Global 6 Inch SiC Wafer Revenue Market Share by Region (2020-2025)
- 9.3 Global 6 Inch SiC Wafer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America 6 Inch SiC Wafer Production
 - 9.4.1 North America 6 Inch SiC Wafer Production Growth Rate (2020-2025)
 - 9.4.2 North America 6 Inch SiC Wafer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe 6 Inch SiC Wafer Production
 - 9.5.1 Europe 6 Inch SiC Wafer Production Growth Rate (2020-2025)
 - 9.5.2 Europe 6 Inch SiC Wafer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan 6 Inch SiC Wafer Production (2020-2025)
 - 9.6.1 Japan 6 Inch SiC Wafer Production Growth Rate (2020-2025)
 - 9.6.2 Japan 6 Inch SiC Wafer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China 6 Inch SiC Wafer Production (2020-2025)
 - 9.7.1 China 6 Inch SiC Wafer Production Growth Rate (2020-2025)
 - 9.7.2 China 6 Inch SiC Wafer Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Wolfspeed
 - 10.1.1 Wolfspeed Basic Information
 - 10.1.2 Wolfspeed 6 Inch SiC Wafer Product Overview
 - 10.1.3 Wolfspeed 6 Inch SiC Wafer Product Market Performance
 - 10.1.4 Wolfspeed Business Overview
 - 10.1.5 Wolfspeed SWOT Analysis
 - 10.1.6 Wolfspeed Recent Developments

10.2 SK Siltron

10.2.1 SK Siltron Basic Information

10.2.2 SK Siltron 6 Inch SiC Wafer Product Overview

10.2.3 SK Siltron 6 Inch SiC Wafer Product Market Performance

10.2.4 SK Siltron Business Overview

10.2.5 SK Siltron SWOT Analysis

10.2.6 SK Siltron Recent Developments

10.3 ROHM Group (SiCrystal)

10.3.1 ROHM Group (SiCrystal) Basic Information

10.3.2 ROHM Group (SiCrystal) 6 Inch SiC Wafer Product Overview

10.3.3 ROHM Group (SiCrystal) 6 Inch SiC Wafer Product Market Performance

10.3.4 ROHM Group (SiCrystal) Business Overview

10.3.5 ROHM Group (SiCrystal) SWOT Analysis

10.3.6 ROHM Group (SiCrystal) Recent Developments

10.4 Coherent

10.4.1 Coherent Basic Information

10.4.2 Coherent 6 Inch SiC Wafer Product Overview

10.4.3 Coherent 6 Inch SiC Wafer Product Market Performance

10.4.4 Coherent Business Overview

10.4.5 Coherent Recent Developments

10.5 Resonac

10.5.1 Resonac Basic Information

10.5.2 Resonac 6 Inch SiC Wafer Product Overview

10.5.3 Resonac 6 Inch SiC Wafer Product Market Performance

10.5.4 Resonac Business Overview

10.5.5 Resonac Recent Developments

10.6 STMicroelectronics

10.6.1 STMicroelectronics Basic Information

10.6.2 STMicroelectronics 6 Inch SiC Wafer Product Overview

10.6.3 STMicroelectronics 6 Inch SiC Wafer Product Market Performance

10.6.4 STMicroelectronics Business Overview

10.6.5 STMicroelectronics Recent Developments

10.7 TankeBlue

10.7.1 TankeBlue Basic Information

10.7.2 TankeBlue 6 Inch SiC Wafer Product Overview

10.7.3 TankeBlue 6 Inch SiC Wafer Product Market Performance

10.7.4 TankeBlue Business Overview

10.7.5 TankeBlue Recent Developments

10.8 SICC

- 10.8.1 SICC Basic Information
- 10.8.2 SICC 6 Inch SiC Wafer Product Overview
- 10.8.3 SICC 6 Inch SiC Wafer Product Market Performance
- 10.8.4 SICC Business Overview
- 10.8.5 SICC Recent Developments
- 10.9 Hebei Synlight Crystal
 - 10.9.1 Hebei Synlight Crystal Basic Information
 - 10.9.2 Hebei Synlight Crystal 6 Inch SiC Wafer Product Overview
 - 10.9.3 Hebei Synlight Crystal 6 Inch SiC Wafer Product Market Performance
 - 10.9.4 Hebei Synlight Crystal Business Overview
 - 10.9.5 Hebei Synlight Crystal Recent Developments
- 10.10 CETC
 - 10.10.1 CETC Basic Information
 - 10.10.2 CETC 6 Inch SiC Wafer Product Overview
 - 10.10.3 CETC 6 Inch SiC Wafer Product Market Performance
 - 10.10.4 CETC Business Overview
 - 10.10.5 CETC Recent Developments
- 10.11 San'an Optoelectronics
 - 10.11.1 San'an Optoelectronics Basic Information
 - 10.11.2 San'an Optoelectronics 6 Inch SiC Wafer Product Overview
 - 10.11.3 San'an Optoelectronics 6 Inch SiC Wafer Product Market Performance
 - 10.11.4 San'an Optoelectronics Business Overview
 - 10.11.5 San'an Optoelectronics Recent Developments

11 6 INCH SiC WAFER MARKET FORECAST BY REGION

- 11.1 Global 6 Inch SiC Wafer Market Size Forecast
- 11.2 Global 6 Inch SiC Wafer Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe 6 Inch SiC Wafer Market Size Forecast by Country
 - 11.2.3 Asia Pacific 6 Inch SiC Wafer Market Size Forecast by Region
 - 11.2.4 South America 6 Inch SiC Wafer Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of 6 Inch SiC Wafer by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global 6 Inch SiC Wafer Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of 6 Inch SiC Wafer by Type (2026-2035)
 - 12.1.2 Global 6 Inch SiC Wafer Market Size Forecast by Type (2026-2035)

- 12.1.3 Global Forecasted Price of 6 Inch SiC Wafer by Type (2026-2035)
- 12.2 Global 6 Inch SiC Wafer Market Forecast by Application (2026-2035)
 - 12.2.1 Global 6 Inch SiC Wafer Sales (K Units) Forecast by Application
 - 12.2.2 Global 6 Inch SiC Wafer Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global 6 Inch SiC Wafer Market Size by Type (M USD)
- Table 4. Global 6 Inch SiC Wafer Market Size by Application
- Table 5. 6 Inch SiC Wafer Market Size Comparison by Region (M USD)
- Table 6. Global 6 Inch SiC Wafer Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global 6 Inch SiC Wafer Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global 6 Inch SiC Wafer Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global 6 Inch SiC Wafer Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in 6 Inch SiC Wafer as of 2025)
- Table 11. Global Market 6 Inch SiC Wafer Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global 6 Inch SiC Wafer Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. 6 Inch SiC Wafer Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global 6 Inch SiC Wafer Sales by Type (K Units)
- Table 27. Global 6 Inch SiC Wafer Market Size by Type (M USD)
- Table 28. Global 6 Inch SiC Wafer Sales (K Units) by Type (2020-2025)
- Table 29. Global 6 Inch SiC Wafer Sales Market Share by Type (2020-2025)
- Table 30. Global 6 Inch SiC Wafer Market Size (M USD) by Type (2020-2025)
- Table 31. Global 6 Inch SiC Wafer Market Share by Type (2020-2025)

- Table 32. Global 6 Inch SiC Wafer Price (USD/Unit) by Type (2020-2025)
- Table 33. Global 6 Inch SiC Wafer Sales (K Units) by Application
- Table 34. Global 6 Inch SiC Wafer Market Size by Application
- Table 35. Global 6 Inch SiC Wafer Sales by Application (2020-2025) & (K Units)
- Table 36. Global 6 Inch SiC Wafer Sales Market Share by Application (2020-2025)
- Table 37. Global 6 Inch SiC Wafer Market Size by Application (2020-2025) & (M USD)
- Table 38. Global 6 Inch SiC Wafer Market Share by Application (2020-2025)
- Table 39. Global 6 Inch SiC Wafer Sales Growth Rate by Application (2020-2025)
- Table 40. Global 6 Inch SiC Wafer Sales by Region (2020-2025) & (K Units)
- Table 41. Global 6 Inch SiC Wafer Sales Market Share by Region (2020-2025)
- Table 42. Global 6 Inch SiC Wafer Market Size by Region (2020-2025) & (M USD)
- Table 43. Global 6 Inch SiC Wafer Market Size by Region (2020-2025)
- Table 44. North America 6 Inch SiC Wafer Sales by Country (2020-2025) & (K Units)
- Table 45. North America 6 Inch SiC Wafer Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe 6 Inch SiC Wafer Sales by Country (2020-2025) & (K Units)
- Table 47. Europe 6 Inch SiC Wafer Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific 6 Inch SiC Wafer Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific 6 Inch SiC Wafer Market Size by Region (2020-2025) & (M USD)
- Table 50. South America 6 Inch SiC Wafer Sales by Country (2020-2025) & (K Units)
- Table 51. South America 6 Inch SiC Wafer Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa 6 Inch SiC Wafer Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa 6 Inch SiC Wafer Market Size by Region (2020-2025) & (M USD)
- Table 54. Global 6 Inch SiC Wafer Production (K Units) by Region(2020-2025)
- Table 55. Global 6 Inch SiC Wafer Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global 6 Inch SiC Wafer Revenue Market Share by Region (2020-2025)
- Table 57. Global 6 Inch SiC Wafer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America 6 Inch SiC Wafer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe 6 Inch SiC Wafer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan 6 Inch SiC Wafer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China 6 Inch SiC Wafer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Wolfspeed Basic Information

Table 63. Wolfspeed 6 Inch SiC Wafer Product Overview

Table 64. Wolfspeed 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Wolfspeed Business Overview

Table 66. Wolfspeed SWOT Analysis

Table 67. Wolfspeed Recent Developments

Table 68. SK Siltron Basic Information

Table 69. SK Siltron 6 Inch SiC Wafer Product Overview

Table 70. SK Siltron 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. SK Siltron Business Overview

Table 72. SK Siltron SWOT Analysis

Table 73. SK Siltron Recent Developments

Table 74. ROHM Group (SiCrystal) Basic Information

Table 75. ROHM Group (SiCrystal) 6 Inch SiC Wafer Product Overview

Table 76. ROHM Group (SiCrystal) 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. ROHM Group (SiCrystal) Business Overview

Table 78. ROHM Group (SiCrystal) SWOT Analysis

Table 79. ROHM Group (SiCrystal) Recent Developments

Table 80. Coherent Basic Information

Table 81. Coherent 6 Inch SiC Wafer Product Overview

Table 82. Coherent 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Coherent Business Overview

Table 84. Coherent Recent Developments

Table 85. Resonac Basic Information

Table 86. Resonac 6 Inch SiC Wafer Product Overview

Table 87. Resonac 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Resonac Business Overview

Table 89. Resonac Recent Developments

Table 90. STMicroelectronics Basic Information

Table 91. STMicroelectronics 6 Inch SiC Wafer Product Overview

Table 92. STMicroelectronics 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. STMicroelectronics Business Overview

Table 94. STMicroelectronics Recent Developments

- Table 95. TankeBlue Basic Information
- Table 96. TankeBlue 6 Inch SiC Wafer Product Overview
- Table 97. TankeBlue 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. TankeBlue Business Overview
- Table 99. TankeBlue Recent Developments
- Table 100. SICC Basic Information
- Table 101. SICC 6 Inch SiC Wafer Product Overview
- Table 102. SICC 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. SICC Business Overview
- Table 104. SICC Recent Developments
- Table 105. Hebei Synlight Crystal Basic Information
- Table 106. Hebei Synlight Crystal 6 Inch SiC Wafer Product Overview
- Table 107. Hebei Synlight Crystal 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Hebei Synlight Crystal Business Overview
- Table 109. Hebei Synlight Crystal Recent Developments
- Table 110. CETC Basic Information
- Table 111. CETC 6 Inch SiC Wafer Product Overview
- Table 112. CETC 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. CETC Business Overview
- Table 114. CETC Recent Developments
- Table 115. San'an Optoelectronics Basic Information
- Table 116. San'an Optoelectronics 6 Inch SiC Wafer Product Overview
- Table 117. San'an Optoelectronics 6 Inch SiC Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. San'an Optoelectronics Business Overview
- Table 119. San'an Optoelectronics Recent Developments
- Table 120. Global 6 Inch SiC Wafer Sales Forecast by Region (2026-2035) & (K Units)
- Table 121. Global 6 Inch SiC Wafer Market Size Forecast by Region (2026-2035) & (M USD)
- Table 122. North America 6 Inch SiC Wafer Sales Forecast by Country (2026-2035) & (K Units)
- Table 123. North America 6 Inch SiC Wafer Market Size Forecast by Country (2026-2035) & (M USD)
- Table 124. Europe 6 Inch SiC Wafer Sales Forecast by Country (2026-2035) & (K Units)
- Table 125. Europe 6 Inch SiC Wafer Market Size Forecast by Country (2026-2035) &

(M USD)

Table 126. Asia Pacific 6 Inch SiC Wafer Sales Forecast by Region (2026-2035) & (K Units)

Table 127. Asia Pacific 6 Inch SiC Wafer Market Size Forecast by Region (2026-2035) & (M USD)

Table 128. South America 6 Inch SiC Wafer Sales Forecast by Country (2026-2035) & (K Units)

Table 129. South America 6 Inch SiC Wafer Market Size Forecast by Country (2026-2035) & (M USD)

Table 130. Middle East and Africa 6 Inch SiC Wafer Sales Forecast by Country (2026-2035) & (Units)

Table 131. Middle East and Africa 6 Inch SiC Wafer Market Size Forecast by Country (2026-2035) & (M USD)

Table 132. Global 6 Inch SiC Wafer Sales Forecast by Type (2026-2035) & (K Units)

Table 133. Global 6 Inch SiC Wafer Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global 6 Inch SiC Wafer Price Forecast by Type (2026-2035) & (USD/Unit)

Table 135. Global 6 Inch SiC Wafer Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global 6 Inch SiC Wafer Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of 6 Inch SiC Wafer
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global 6 Inch SiC Wafer Market Size (M USD), 2025-2035
- Figure 5. Global 6 Inch SiC Wafer Market Size (M USD) (2020-2035)
- Figure 6. Global 6 Inch SiC Wafer Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. 6 Inch SiC Wafer Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global 6 Inch SiC Wafer Product Life Cycle
- Figure 13. 6 Inch SiC Wafer Sales Share by Manufacturers in 2025
- Figure 14. Global 6 Inch SiC Wafer Revenue Share by Manufacturers in 2025
- Figure 15. 6 Inch SiC Wafer Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market 6 Inch SiC Wafer Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by 6 Inch SiC Wafer Revenue in 2025
- Figure 18. Industry Chain Map of 6 Inch SiC Wafer
- Figure 19. Global 6 Inch SiC Wafer Market PEST Analysis
- Figure 20. Global 6 Inch SiC Wafer Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global 6 Inch SiC Wafer Market Share by Type
- Figure 27. Sales Market Share of 6 Inch SiC Wafer by Type (2020-2025)
- Figure 28. Sales Market Share of 6 Inch SiC Wafer by Type in 2025
- Figure 29. Market Share of 6 Inch SiC Wafer by Type (2020-2025)
- Figure 30. Market Share of 6 Inch SiC Wafer by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global 6 Inch SiC Wafer Market Share by Application

- Figure 33. Global 6 Inch SiC Wafer Sales Market Share by Application (2020-2025)
- Figure 34. Global 6 Inch SiC Wafer Sales Market Share by Application in 2025
- Figure 35. Global 6 Inch SiC Wafer Market Share by Application (2020-2025)
- Figure 36. Global 6 Inch SiC Wafer Market Share by Application in 2025
- Figure 37. Global 6 Inch SiC Wafer Sales Growth Rate by Application (2020-2025)
- Figure 38. Global 6 Inch SiC Wafer Sales Market Share by Region (2020-2025)
- Figure 39. Global 6 Inch SiC Wafer Market Size by Region (2020-2025)
- Figure 40. North America 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America 6 Inch SiC Wafer Sales Market Share by Country in 2024
- Figure 43. North America 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America 6 Inch SiC Wafer Market Size by Country in 2024
- Figure 45. U.S. 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada 6 Inch SiC Wafer Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada 6 Inch SiC Wafer Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico 6 Inch SiC Wafer Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico 6 Inch SiC Wafer Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe 6 Inch SiC Wafer Sales Market Share by Country in 2024
- Figure 53. Europe 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe 6 Inch SiC Wafer Market Size by Country in 2024
- Figure 55. Germany 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 56. Germany 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 58. France 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 60. U.K. 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 61. Italy 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 62. Italy 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 63. Spain 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 64. Spain 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

USD)

Figure 65. Asia Pacific 6 Inch SiC Wafer Sales and Growth Rate (K Units)

Figure 66. Asia Pacific 6 Inch SiC Wafer Sales Market Share by Region in 2024

Figure 67. Asia Pacific 6 Inch SiC Wafer Market Size by Region in 2024

Figure 68. China 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America 6 Inch SiC Wafer Sales and Growth Rate (K Units)

Figure 79. South America 6 Inch SiC Wafer Sales Market Share by Country in 2024

Figure 80. South America 6 Inch SiC Wafer Market Size and Growth Rate (M USD)

Figure 81. South America 6 Inch SiC Wafer Market Size by Country in 2024

Figure 82. Brazil 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa 6 Inch SiC Wafer Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa 6 Inch SiC Wafer Sales Market Share by Region in 2024

Figure 90. Middle East and Africa 6 Inch SiC Wafer Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa 6 Inch SiC Wafer Market Size by Region in 2024

Figure 92. Saudi Arabia 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa 6 Inch SiC Wafer Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa 6 Inch SiC Wafer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global 6 Inch SiC Wafer Production Market Share by Region (2020-2025)

Figure 103. North America 6 Inch SiC Wafer Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe 6 Inch SiC Wafer Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan 6 Inch SiC Wafer Production (K Units) Growth Rate (2020-2025)

Figure 106. China 6 Inch SiC Wafer Production (K Units) Growth Rate (2020-2025)

Figure 107. Global 6 Inch SiC Wafer Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global 6 Inch SiC Wafer Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global 6 Inch SiC Wafer Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global 6 Inch SiC Wafer Market Share Forecast by Type (2026-2035)

Figure 111. Global 6 Inch SiC Wafer Sales Forecast by Application (2026-2035)

Figure 112. Global 6 Inch SiC Wafer Market Share Forecast by Application (2026-2035)

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