

Global SiC Wafer and Epitaxy Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global SiC Wafer and Epitaxy market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

SiC wafers are used as the foundation for SiC-based devices, such as power MOSFETs, Schottky diodes, and bipolar junction transistors. Compared to silicon wafers, SiC wafers offer a number of advantages, including higher power density, higher temperature tolerance, and higher switching speeds. As a result, SiC wafers are becoming increasingly popular in applications such as electric vehicles, renewable energy systems, and industrial automation.

SiC epitaxy, on the other hand, is the process of depositing a layer of SiC onto a substrate, typically a SiC wafer. Epitaxy is used to create highly uniform and pure SiC films, which are used in the production of high-performance SiC devices. SiC epitaxy is a critical step in the production of SiC-based devices, and the market for this material is expected to grow rapidly in the coming years.

Geographically, the SiC wafer and epitaxy market is dominated by Asia-Pacific, particularly China and Japan, due to the presence of a large number of semiconductor manufacturers in the region. The increasing demand for electric vehicles and renewable energy systems in China is driving the growth of the SiC wafer and epitaxy market in the region.

In addition to traditional semiconductor applications, SiC wafers and epitaxy are also finding new applications in the fields of optoelectronics and biotechnology. SiC-based optical sensors and emitters are highly resistant to high temperatures and harsh environments, making them ideal for use in aerospace, automotive, and industrial

applications. SiC-based biosensors, on the other hand, offer high sensitivity and selectivity, making them ideal for use in medical and environmental monitoring applications.

In conclusion, the SiC wafer and epitaxy market is rapidly growing, driven by the increasing demand for high-performance SiC-based devices in a range of industries. The market is dominated by Asia-Pacific, with China and Japan being the major consumers of SiC wafers and epitaxy. With the ongoing development of new applications for SiC-based materials, the market for SiC wafers and epitaxy is expected to continue growing in the coming years.

Silicon carbide (SiC) is a compound semiconductor material with unique properties that make it highly desirable for a range of electronic applications, including power electronics, communication systems, and sensors. SiC wafers and epitaxy are key components in the production of SiC-based devices, and the market for these materials is rapidly growing.

This report studies the global SiC Wafer and Epitaxy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC Wafer and Epitaxy, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC Wafer and Epitaxy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC Wafer and Epitaxy total production and demand, 2018-2029, (K Units)

Global SiC Wafer and Epitaxy total production value, 2018-2029, (USD Million)

Global SiC Wafer and Epitaxy production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global SiC Wafer and Epitaxy consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: SiC Wafer and Epitaxy domestic production, consumption, key domestic

manufacturers and share

Global SiC Wafer and Epitaxy production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global SiC Wafer and Epitaxy production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global SiC Wafer and Epitaxy production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global SiC Wafer and Epitaxy market based on the following parameters – company overview, production, value, 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 and Hebei Synlight Crystal, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC Wafer and Epitaxy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global SiC Wafer and Epitaxy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC Wafer and Epitaxy Market, Segmentation by Type

4 Inch

6 Inch

8 Inch

Global SiC Wafer and Epitaxy Market, Segmentation by Application

Power Device

Electronics & Optoelectronics

Wireless Infrastructure

Others

Companies Profiled:

Wolfspeed

SK Siltron

ROHM Group (SiCrystal)

Coherent

Resonac

STMicroelectronics

TankeBlue

SICC

Hebei Synlight Crystal

CETC

San'an Optoelectronics

Key Questions Answered

1. How big is the global SiC Wafer and Epitaxy market?
2. What is the demand of the global SiC Wafer and Epitaxy market?
3. What is the year over year growth of the global SiC Wafer and Epitaxy market?
4. What is the production and production value of the global SiC Wafer and Epitaxy market?
5. Who are the key producers in the global SiC Wafer and Epitaxy market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 SiC Wafer and Epitaxy Introduction
- 1.2 World SiC Wafer and Epitaxy Supply & Forecast
 - 1.2.1 World SiC Wafer and Epitaxy Production Value (2018 & 2022 & 2029)
 - 1.2.2 World SiC Wafer and Epitaxy Production (2018-2029)
 - 1.2.3 World SiC Wafer and Epitaxy Pricing Trends (2018-2029)
- 1.3 World SiC Wafer and Epitaxy Production by Region (Based on Production Site)
 - 1.3.1 World SiC Wafer and Epitaxy Production Value by Region (2018-2029)
 - 1.3.2 World SiC Wafer and Epitaxy Production by Region (2018-2029)
 - 1.3.3 World SiC Wafer and Epitaxy Average Price by Region (2018-2029)
 - 1.3.4 North America SiC Wafer and Epitaxy Production (2018-2029)
 - 1.3.5 Europe SiC Wafer and Epitaxy Production (2018-2029)
 - 1.3.6 China SiC Wafer and Epitaxy Production (2018-2029)
 - 1.3.7 Japan SiC Wafer and Epitaxy Production (2018-2029)
 - 1.3.8 South Korea SiC Wafer and Epitaxy Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 SiC Wafer and Epitaxy Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 SiC Wafer and Epitaxy Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World SiC Wafer and Epitaxy Demand (2018-2029)
- 2.2 World SiC Wafer and Epitaxy Consumption by Region
 - 2.2.1 World SiC Wafer and Epitaxy Consumption by Region (2018-2023)
 - 2.2.2 World SiC Wafer and Epitaxy Consumption Forecast by Region (2024-2029)
- 2.3 United States SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.4 China SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.5 Europe SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.6 Japan SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.7 South Korea SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.8 ASEAN SiC Wafer and Epitaxy Consumption (2018-2029)
- 2.9 India SiC Wafer and Epitaxy Consumption (2018-2029)

3 WORLD SiC WAFER AND EPITAXY MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World SiC Wafer and Epitaxy Production Value by Manufacturer (2018-2023)
- 3.2 World SiC Wafer and Epitaxy Production by Manufacturer (2018-2023)
- 3.3 World SiC Wafer and Epitaxy Average Price by Manufacturer (2018-2023)
- 3.4 SiC Wafer and Epitaxy Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global SiC Wafer and Epitaxy Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for SiC Wafer and Epitaxy in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for SiC Wafer and Epitaxy in 2022
- 3.6 SiC Wafer and Epitaxy Market: Overall Company Footprint Analysis
 - 3.6.1 SiC Wafer and Epitaxy Market: Region Footprint
 - 3.6.2 SiC Wafer and Epitaxy Market: Company Product Type Footprint
 - 3.6.3 SiC Wafer and Epitaxy Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: SiC Wafer and Epitaxy Production Value Comparison
 - 4.1.1 United States VS China: SiC Wafer and Epitaxy Production Value Comparison (2018 & 2022 & 2029)
 - 4.1.2 United States VS China: SiC Wafer and Epitaxy Production Value Market Share Comparison (2018 & 2022 & 2029)
- 4.2 United States VS China: SiC Wafer and Epitaxy Production Comparison
 - 4.2.1 United States VS China: SiC Wafer and Epitaxy Production Comparison (2018 & 2022 & 2029)
 - 4.2.2 United States VS China: SiC Wafer and Epitaxy Production Market Share Comparison (2018 & 2022 & 2029)
- 4.3 United States VS China: SiC Wafer and Epitaxy Consumption Comparison
 - 4.3.1 United States VS China: SiC Wafer and Epitaxy Consumption Comparison (2018 & 2022 & 2029)
 - 4.3.2 United States VS China: SiC Wafer and Epitaxy Consumption Market Share

Comparison (2018 & 2022 & 2029)

4.4 United States Based SiC Wafer and Epitaxy Manufacturers and Market Share, 2018-2023

4.4.1 United States Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers SiC Wafer and Epitaxy Production Value (2018-2023)

4.4.3 United States Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023)

4.5 China Based SiC Wafer and Epitaxy Manufacturers and Market Share

4.5.1 China Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers SiC Wafer and Epitaxy Production Value (2018-2023)

4.5.3 China Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023)

4.6 Rest of World Based SiC Wafer and Epitaxy Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers SiC Wafer and Epitaxy Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World SiC Wafer and Epitaxy Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 4 Inch

5.2.2 6 Inch

5.2.3 8 Inch

5.3 Market Segment by Type

5.3.1 World SiC Wafer and Epitaxy Production by Type (2018-2029)

5.3.2 World SiC Wafer and Epitaxy Production Value by Type (2018-2029)

5.3.3 World SiC Wafer and Epitaxy Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World SiC Wafer and Epitaxy Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Power Device

6.2.2 Electronics & Optoelectronics

6.2.3 Wireless Infrastructure

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World SiC Wafer and Epitaxy Production by Application (2018-2029)

6.3.2 World SiC Wafer and Epitaxy Production Value by Application (2018-2029)

6.3.3 World SiC Wafer and Epitaxy Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Wolfspeed

7.1.1 Wolfspeed Details

7.1.2 Wolfspeed Major Business

7.1.3 Wolfspeed SiC Wafer and Epitaxy Product and Services

7.1.4 Wolfspeed SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Wolfspeed Recent Developments/Updates

7.1.6 Wolfspeed Competitive Strengths & Weaknesses

7.2 SK Siltron

7.2.1 SK Siltron Details

7.2.2 SK Siltron Major Business

7.2.3 SK Siltron SiC Wafer and Epitaxy Product and Services

7.2.4 SK Siltron SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 SK Siltron Recent Developments/Updates

7.2.6 SK Siltron Competitive Strengths & Weaknesses

7.3 ROHM Group (SiCrystal)

7.3.1 ROHM Group (SiCrystal) Details

7.3.2 ROHM Group (SiCrystal) Major Business

7.3.3 ROHM Group (SiCrystal) SiC Wafer and Epitaxy Product and Services

7.3.4 ROHM Group (SiCrystal) SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 ROHM Group (SiCrystal) Recent Developments/Updates

7.3.6 ROHM Group (SiCrystal) Competitive Strengths & Weaknesses

7.4 Coherent

- 7.4.1 Coherent Details
- 7.4.2 Coherent Major Business
- 7.4.3 Coherent SiC Wafer and Epitaxy Product and Services
- 7.4.4 Coherent SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.4.5 Coherent Recent Developments/Updates
- 7.4.6 Coherent Competitive Strengths & Weaknesses
- 7.5 Resonac
 - 7.5.1 Resonac Details
 - 7.5.2 Resonac Major Business
 - 7.5.3 Resonac SiC Wafer and Epitaxy Product and Services
 - 7.5.4 Resonac SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 Resonac Recent Developments/Updates
 - 7.5.6 Resonac Competitive Strengths & Weaknesses
- 7.6 STMicroelectronics
 - 7.6.1 STMicroelectronics Details
 - 7.6.2 STMicroelectronics Major Business
 - 7.6.3 STMicroelectronics SiC Wafer and Epitaxy Product and Services
 - 7.6.4 STMicroelectronics SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 STMicroelectronics Recent Developments/Updates
 - 7.6.6 STMicroelectronics Competitive Strengths & Weaknesses
- 7.7 TankeBlue
 - 7.7.1 TankeBlue Details
 - 7.7.2 TankeBlue Major Business
 - 7.7.3 TankeBlue SiC Wafer and Epitaxy Product and Services
 - 7.7.4 TankeBlue SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 TankeBlue Recent Developments/Updates
 - 7.7.6 TankeBlue Competitive Strengths & Weaknesses
- 7.8 SICC
 - 7.8.1 SICC Details
 - 7.8.2 SICC Major Business
 - 7.8.3 SICC SiC Wafer and Epitaxy Product and Services
 - 7.8.4 SICC SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.8.5 SICC Recent Developments/Updates
 - 7.8.6 SICC Competitive Strengths & Weaknesses

7.9 Hebei Synlight Crystal

7.9.1 Hebei Synlight Crystal Details

7.9.2 Hebei Synlight Crystal Major Business

7.9.3 Hebei Synlight Crystal SiC Wafer and Epitaxy Product and Services

7.9.4 Hebei Synlight Crystal SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 Hebei Synlight Crystal Recent Developments/Updates

7.9.6 Hebei Synlight Crystal Competitive Strengths & Weaknesses

7.10 CETC

7.10.1 CETC Details

7.10.2 CETC Major Business

7.10.3 CETC SiC Wafer and Epitaxy Product and Services

7.10.4 CETC SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 CETC Recent Developments/Updates

7.10.6 CETC Competitive Strengths & Weaknesses

7.11 San'an Optoelectronics

7.11.1 San'an Optoelectronics Details

7.11.2 San'an Optoelectronics Major Business

7.11.3 San'an Optoelectronics SiC Wafer and Epitaxy Product and Services

7.11.4 San'an Optoelectronics SiC Wafer and Epitaxy Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.11.5 San'an Optoelectronics Recent Developments/Updates

7.11.6 San'an Optoelectronics Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 SiC Wafer and Epitaxy Industry Chain

8.2 SiC Wafer and Epitaxy Upstream Analysis

8.2.1 SiC Wafer and Epitaxy Core Raw Materials

8.2.2 Main Manufacturers of SiC Wafer and Epitaxy Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 SiC Wafer and Epitaxy Production Mode

8.6 SiC Wafer and Epitaxy Procurement Model

8.7 SiC Wafer and Epitaxy Industry Sales Model and Sales Channels

8.7.1 SiC Wafer and Epitaxy Sales Model

8.7.2 SiC Wafer and Epitaxy Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World SiC Wafer and Epitaxy Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World SiC Wafer and Epitaxy Production Value by Region (2018-2023) & (USD Million)

Table 3. World SiC Wafer and Epitaxy Production Value by Region (2024-2029) & (USD Million)

Table 4. World SiC Wafer and Epitaxy Production Value Market Share by Region (2018-2023)

Table 5. World SiC Wafer and Epitaxy Production Value Market Share by Region (2024-2029)

Table 6. World SiC Wafer and Epitaxy Production by Region (2018-2023) & (K Units)

Table 7. World SiC Wafer and Epitaxy Production by Region (2024-2029) & (K Units)

Table 8. World SiC Wafer and Epitaxy Production Market Share by Region (2018-2023)

Table 9. World SiC Wafer and Epitaxy Production Market Share by Region (2024-2029)

Table 10. World SiC Wafer and Epitaxy Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World SiC Wafer and Epitaxy Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. SiC Wafer and Epitaxy Major Market Trends

Table 13. World SiC Wafer and Epitaxy Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Units)

Table 14. World SiC Wafer and Epitaxy Consumption by Region (2018-2023) & (K Units)

Table 15. World SiC Wafer and Epitaxy Consumption Forecast by Region (2024-2029) & (K Units)

Table 16. World SiC Wafer and Epitaxy Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key SiC Wafer and Epitaxy Producers in 2022

Table 18. World SiC Wafer and Epitaxy Production by Manufacturer (2018-2023) & (K Units)

Table 19. Production Market Share of Key SiC Wafer and Epitaxy Producers in 2022

Table 20. World SiC Wafer and Epitaxy Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global SiC Wafer and Epitaxy Company Evaluation Quadrant

Table 22. World SiC Wafer and Epitaxy Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and SiC Wafer and Epitaxy Production Site of Key Manufacturer

Table 24. SiC Wafer and Epitaxy Market: Company Product Type Footprint

Table 25. SiC Wafer and Epitaxy Market: Company Product Application Footprint

Table 26. SiC Wafer and Epitaxy Competitive Factors

Table 27. SiC Wafer and Epitaxy New Entrant and Capacity Expansion Plans

Table 28. SiC Wafer and Epitaxy Mergers & Acquisitions Activity

Table 29. United States VS China SiC Wafer and Epitaxy Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China SiC Wafer and Epitaxy Production Comparison, (2018 & 2022 & 2029) & (K Units)

Table 31. United States VS China SiC Wafer and Epitaxy Consumption Comparison, (2018 & 2022 & 2029) & (K Units)

Table 32. United States Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers SiC Wafer and Epitaxy Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers SiC Wafer and Epitaxy Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023) & (K Units)

Table 36. United States Based Manufacturers SiC Wafer and Epitaxy Production Market Share (2018-2023)

Table 37. China Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers SiC Wafer and Epitaxy Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers SiC Wafer and Epitaxy Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023) & (K Units)

Table 41. China Based Manufacturers SiC Wafer and Epitaxy Production Market Share (2018-2023)

Table 42. Rest of World Based SiC Wafer and Epitaxy Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers SiC Wafer and Epitaxy Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers SiC Wafer and Epitaxy Production Value

Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers SiC Wafer and Epitaxy Production (2018-2023) & (K Units)

Table 46. Rest of World Based Manufacturers SiC Wafer and Epitaxy Production Market Share (2018-2023)

Table 47. World SiC Wafer and Epitaxy Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World SiC Wafer and Epitaxy Production by Type (2018-2023) & (K Units)

Table 49. World SiC Wafer and Epitaxy Production by Type (2024-2029) & (K Units)

Table 50. World SiC Wafer and Epitaxy Production Value by Type (2018-2023) & (USD Million)

Table 51. World SiC Wafer and Epitaxy Production Value by Type (2024-2029) & (USD Million)

Table 52. World SiC Wafer and Epitaxy Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World SiC Wafer and Epitaxy Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World SiC Wafer and Epitaxy Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World SiC Wafer and Epitaxy Production by Application (2018-2023) & (K Units)

Table 56. World SiC Wafer and Epitaxy Production by Application (2024-2029) & (K Units)

Table 57. World SiC Wafer and Epitaxy Production Value by Application (2018-2023) & (USD Million)

Table 58. World SiC Wafer and Epitaxy Production Value by Application (2024-2029) & (USD Million)

Table 59. World SiC Wafer and Epitaxy Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World SiC Wafer and Epitaxy Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 62. Wolfspeed Major Business

Table 63. Wolfspeed SiC Wafer and Epitaxy Product and Services

Table 64. Wolfspeed SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Wolfspeed Recent Developments/Updates

Table 66. Wolfspeed Competitive Strengths & Weaknesses

Table 67. SK Siltron Basic Information, Manufacturing Base and Competitors

- Table 68. SK Siltron Major Business
- Table 69. SK Siltron SiC Wafer and Epitaxy Product and Services
- Table 70. SK Siltron SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 71. SK Siltron Recent Developments/Updates
- Table 72. SK Siltron Competitive Strengths & Weaknesses
- Table 73. ROHM Group (SiCrystal) Basic Information, Manufacturing Base and Competitors
- Table 74. ROHM Group (SiCrystal) Major Business
- Table 75. ROHM Group (SiCrystal) SiC Wafer and Epitaxy Product and Services
- Table 76. ROHM Group (SiCrystal) SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 77. ROHM Group (SiCrystal) Recent Developments/Updates
- Table 78. ROHM Group (SiCrystal) Competitive Strengths & Weaknesses
- Table 79. Coherent Basic Information, Manufacturing Base and Competitors
- Table 80. Coherent Major Business
- Table 81. Coherent SiC Wafer and Epitaxy Product and Services
- Table 82. Coherent SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 83. Coherent Recent Developments/Updates
- Table 84. Coherent Competitive Strengths & Weaknesses
- Table 85. Resonac Basic Information, Manufacturing Base and Competitors
- Table 86. Resonac Major Business
- Table 87. Resonac SiC Wafer and Epitaxy Product and Services
- Table 88. Resonac SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. Resonac Recent Developments/Updates
- Table 90. Resonac Competitive Strengths & Weaknesses
- Table 91. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 92. STMicroelectronics Major Business
- Table 93. STMicroelectronics SiC Wafer and Epitaxy Product and Services
- Table 94. STMicroelectronics SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. STMicroelectronics Recent Developments/Updates
- Table 96. STMicroelectronics Competitive Strengths & Weaknesses
- Table 97. TankeBlue Basic Information, Manufacturing Base and Competitors
- Table 98. TankeBlue Major Business

- Table 99. TankeBlue SiC Wafer and Epitaxy Product and Services
- Table 100. TankeBlue SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. TankeBlue Recent Developments/Updates
- Table 102. TankeBlue Competitive Strengths & Weaknesses
- Table 103. SICC Basic Information, Manufacturing Base and Competitors
- Table 104. SICC Major Business
- Table 105. SICC SiC Wafer and Epitaxy Product and Services
- Table 106. SICC SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. SICC Recent Developments/Updates
- Table 108. SICC Competitive Strengths & Weaknesses
- Table 109. Hebei Synlight Crystal Basic Information, Manufacturing Base and Competitors
- Table 110. Hebei Synlight Crystal Major Business
- Table 111. Hebei Synlight Crystal SiC Wafer and Epitaxy Product and Services
- Table 112. Hebei Synlight Crystal SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. Hebei Synlight Crystal Recent Developments/Updates
- Table 114. Hebei Synlight Crystal Competitive Strengths & Weaknesses
- Table 115. CETC Basic Information, Manufacturing Base and Competitors
- Table 116. CETC Major Business
- Table 117. CETC SiC Wafer and Epitaxy Product and Services
- Table 118. CETC SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. CETC Recent Developments/Updates
- Table 120. San'an Optoelectronics Basic Information, Manufacturing Base and Competitors
- Table 121. San'an Optoelectronics Major Business
- Table 122. San'an Optoelectronics SiC Wafer and Epitaxy Product and Services
- Table 123. San'an Optoelectronics SiC Wafer and Epitaxy Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 124. Global Key Players of SiC Wafer and Epitaxy Upstream (Raw Materials)
- Table 125. SiC Wafer and Epitaxy Typical Customers
- Table 126. SiC Wafer and Epitaxy Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. SiC Wafer and Epitaxy Picture

Figure 2. World SiC Wafer and Epitaxy Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World SiC Wafer and Epitaxy Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 5. World SiC Wafer and Epitaxy Average Price (2018-2029) & (US\$/Unit)

Figure 6. World SiC Wafer and Epitaxy Production Value Market Share by Region (2018-2029)

Figure 7. World SiC Wafer and Epitaxy Production Market Share by Region (2018-2029)

Figure 8. North America SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 9. Europe SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 10. China SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 11. Japan SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 12. South Korea SiC Wafer and Epitaxy Production (2018-2029) & (K Units)

Figure 13. SiC Wafer and Epitaxy Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 16. World SiC Wafer and Epitaxy Consumption Market Share by Region (2018-2029)

Figure 17. United States SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 18. China SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 19. Europe SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 20. Japan SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 21. South Korea SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 22. ASEAN SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 23. India SiC Wafer and Epitaxy Consumption (2018-2029) & (K Units)

Figure 24. Producer Shipments of SiC Wafer and Epitaxy by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for SiC Wafer and Epitaxy Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for SiC Wafer and Epitaxy Markets in 2022

Figure 27. United States VS China: SiC Wafer and Epitaxy Production Value Market

Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: SiC Wafer and Epitaxy Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: SiC Wafer and Epitaxy Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers SiC Wafer and Epitaxy Production Market Share 2022

Figure 31. China Based Manufacturers SiC Wafer and Epitaxy Production Market Share 2022

Figure 32. Rest of World Based Manufacturers SiC Wafer and Epitaxy Production Market Share 2022

Figure 33. World SiC Wafer and Epitaxy Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World SiC Wafer and Epitaxy Production Value Market Share by Type in 2022

Figure 35. 4 Inch

Figure 36. 6 Inch

Figure 37. 8 Inch

Figure 38. World SiC Wafer and Epitaxy Production Market Share by Type (2018-2029)

Figure 39. World SiC Wafer and Epitaxy Production Value Market Share by Type (2018-2029)

Figure 40. World SiC Wafer and Epitaxy Average Price by Type (2018-2029) & (US\$/Unit)

Figure 41. World SiC Wafer and Epitaxy Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World SiC Wafer and Epitaxy Production Value Market Share by Application in 2022

Figure 43. Power Device

Figure 44. Electronics & Optoelectronics

Figure 45. Wireless Infrastructure

Figure 46. Others

Figure 47. World SiC Wafer and Epitaxy Production Market Share by Application (2018-2029)

Figure 48. World SiC Wafer and Epitaxy Production Value Market Share by Application (2018-2029)

Figure 49. World SiC Wafer and Epitaxy Average Price by Application (2018-2029) & (US\$/Unit)

Figure 50. SiC Wafer and Epitaxy Industry Chain

Figure 51. SiC Wafer and Epitaxy Procurement Model

Figure 52. SiC Wafer and Epitaxy Sales Model

Figure 53. SiC Wafer and Epitaxy Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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