

Global Silicon Carbide Epitaxial Wafer Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview:

Epitaxial Wafer is made by adding multi-micrometer thick single silicon carbide crystal layers on top of a polished wafer. Precise control of thickness, doping (carrier concentration) and defect density is required to enable high yielding power devices from a semiconductor fabrication facility. Silicon Carbide Epitaxial Wafer is a wafer of Silicon Carbide made by epitaxial growth (called epitaxy) for use in making semiconductor and photonic device.

The Global Silicon Carbide Epitaxial Wafer Market Size was estimated at USD 308.78 million in 2023 and is projected to reach USD 1670.90 million by 2029, exhibiting a CAGR of 32.50% during the forecast period.

This report provides a deep insight into the global Silicon Carbide Epitaxial Wafer market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Silicon Carbide Epitaxial Wafer Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and

deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Silicon Carbide Epitaxial Wafer market in any manner.

Global Silicon Carbide Epitaxial Wafer Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Cree (Wolfspeed)

II-VI Advanced Materials(Ascatron)

Showa Denko K.K.(NSSMC)

Epiworld international

SK Siltron(Dupont)

TYSiC

STMicroelectronics (Norstel)

ROHM (Sicystal)

Market Segmentation (by Type)

100mm

150mm

200mm

Market Segmentation (by Application)

600-1200V SiC Devices

1200-3300V SiC Devices

Above 3300V SiC Devices

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 Silicon Carbide Epitaxial Wafer Market

Overview of the regional outlook of the Silicon Carbide Epitaxial Wafer Market:

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 (USD Billion) 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

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

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 Silicon Carbide Epitaxial 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 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 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Silicon Carbide Epitaxial Wafer
- 1.2 Key Market Segments
 - 1.2.1 Silicon Carbide Epitaxial Wafer Segment by Type
 - 1.2.2 Silicon Carbide Epitaxial 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 SILICON CARBIDE EPITAXIAL WAFER MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Silicon Carbide Epitaxial Wafer Market Size (M USD) Estimates and Forecasts (2019-2030)
 - 2.1.2 Global Silicon Carbide Epitaxial Wafer Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SILICON CARBIDE EPITAXIAL WAFER MARKET COMPETITIVE LANDSCAPE

- 3.1 Global Silicon Carbide Epitaxial Wafer Sales by Manufacturers (2019-2024)
- 3.2 Global Silicon Carbide Epitaxial Wafer Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Silicon Carbide Epitaxial Wafer Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Silicon Carbide Epitaxial Wafer Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Silicon Carbide Epitaxial Wafer Sales Sites, Area Served, Product Type
- 3.6 Silicon Carbide Epitaxial Wafer Market Competitive Situation and Trends
 - 3.6.1 Silicon Carbide Epitaxial Wafer Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest Silicon Carbide Epitaxial Wafer Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 SILICON CARBIDE EPITAXIAL WAFER INDUSTRY CHAIN ANALYSIS

4.1 Silicon Carbide Epitaxial 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 SILICON CARBIDE EPITAXIAL WAFER MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 SILICON CARBIDE EPITAXIAL WAFER MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Silicon Carbide Epitaxial Wafer Sales Market Share by Type (2019-2024)

6.3 Global Silicon Carbide Epitaxial Wafer Market Size Market Share by Type (2019-2024)

6.4 Global Silicon Carbide Epitaxial Wafer Price by Type (2019-2024)

7 SILICON CARBIDE EPITAXIAL WAFER MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Silicon Carbide Epitaxial Wafer Market Sales by Application (2019-2024)

7.3 Global Silicon Carbide Epitaxial Wafer Market Size (M USD) by Application (2019-2024)

7.4 Global Silicon Carbide Epitaxial Wafer Sales Growth Rate by Application

(2019-2024)

8 SILICON CARBIDE EPITAXIAL WAFER MARKET SEGMENTATION BY REGION

8.1 Global Silicon Carbide Epitaxial Wafer Sales by Region

8.1.1 Global Silicon Carbide Epitaxial Wafer Sales by Region

8.1.2 Global Silicon Carbide Epitaxial Wafer Sales Market Share by Region

8.2 North America

8.2.1 North America Silicon Carbide Epitaxial Wafer Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Silicon Carbide Epitaxial Wafer Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Silicon Carbide Epitaxial Wafer Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Silicon Carbide Epitaxial Wafer Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Silicon Carbide Epitaxial Wafer Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Cree (Wolfspeed)

- 9.1.1 Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Basic Information
- 9.1.2 Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Product Overview
- 9.1.3 Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Product Market Performance
- 9.1.4 Cree (Wolfspeed) Business Overview
- 9.1.5 Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer SWOT Analysis
- 9.1.6 Cree (Wolfspeed) Recent Developments

9.2 II-VI Advanced Materials(Ascatron)

- 9.2.1 II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Basic Information
- 9.2.2 II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Product Overview
- 9.2.3 II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Product Market Performance
- 9.2.4 II-VI Advanced Materials(Ascatron) Business Overview
- 9.2.5 II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer SWOT Analysis
- 9.2.6 II-VI Advanced Materials(Ascatron) Recent Developments

9.3 Showa Denko K.K.(NSSMC)

- 9.3.1 Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Basic Information
- 9.3.2 Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Product Overview
- 9.3.3 Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Product Market Performance
- 9.3.4 Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer SWOT Analysis
- 9.3.5 Showa Denko K.K.(NSSMC) Business Overview
- 9.3.6 Showa Denko K.K.(NSSMC) Recent Developments

9.4 Epiworld intenational

- 9.4.1 Epiworld intenational Silicon Carbide Epitaxial Wafer Basic Information
- 9.4.2 Epiworld intenational Silicon Carbide Epitaxial Wafer Product Overview
- 9.4.3 Epiworld intenational Silicon Carbide Epitaxial Wafer Product Market Performance
- 9.4.4 Epiworld intenational Business Overview
- 9.4.5 Epiworld intenational Recent Developments

9.5 SK Siltron(Dupont)

- 9.5.1 SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Basic Information
- 9.5.2 SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Product Overview
- 9.5.3 SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Product Market Performance

9.5.4 SK Siltron(Dupont) Business Overview

9.5.5 SK Siltron(Dupont) Recent Developments

9.6 TYSiC

9.6.1 TYSiC Silicon Carbide Epitaxial Wafer Basic Information

9.6.2 TYSiC Silicon Carbide Epitaxial Wafer Product Overview

9.6.3 TYSiC Silicon Carbide Epitaxial Wafer Product Market Performance

9.6.4 TYSiC Business Overview

9.6.5 TYSiC Recent Developments

9.7 STMicroelectronics (Norstel)

9.7.1 STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Basic Information

9.7.2 STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Product Overview

9.7.3 STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Product Market

Performance

9.7.4 STMicroelectronics (Norstel) Business Overview

9.7.5 STMicroelectronics (Norstel) Recent Developments

9.8 ROHM (Sicrystal)

9.8.1 ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Basic Information

9.8.2 ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Product Overview

9.8.3 ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Product Market Performance

9.8.4 ROHM (Sicrystal) Business Overview

9.8.5 ROHM (Sicrystal) Recent Developments

10 SILICON CARBIDE EPITAXIAL WAFER MARKET FORECAST BY REGION

10.1 Global Silicon Carbide Epitaxial Wafer Market Size Forecast

10.2 Global Silicon Carbide Epitaxial Wafer Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe Silicon Carbide Epitaxial Wafer Market Size Forecast by Country

10.2.3 Asia Pacific Silicon Carbide Epitaxial Wafer Market Size Forecast by Region

10.2.4 South America Silicon Carbide Epitaxial Wafer Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of Silicon Carbide Epitaxial Wafer by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)

11.1 Global Silicon Carbide Epitaxial Wafer Market Forecast by Type (2025-2030)

11.1.1 Global Forecasted Sales of Silicon Carbide Epitaxial Wafer by Type (2025-2030)

11.1.2 Global Silicon Carbide Epitaxial Wafer Market Size Forecast by Type
(2025-2030)

11.1.3 Global Forecasted Price of Silicon Carbide Epitaxial Wafer by Type
(2025-2030)

11.2 Global Silicon Carbide Epitaxial Wafer Market Forecast by Application (2025-2030)

11.2.1 Global Silicon Carbide Epitaxial Wafer Sales (K Units) Forecast by Application

11.2.2 Global Silicon Carbide Epitaxial Wafer Market Size (M USD) Forecast by
Application (2025-2030)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Silicon Carbide Epitaxial Wafer Market Size Comparison by Region (M USD)

Table 5. Global Silicon Carbide Epitaxial Wafer Sales (K Units) by Manufacturers
(2019-2024)

Table 6. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Manufacturers
(2019-2024)

Table 7. Global Silicon Carbide Epitaxial Wafer Revenue (M USD) by Manufacturers
(2019-2024)

Table 8. Global Silicon Carbide Epitaxial Wafer Revenue Share by Manufacturers
(2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Silicon Carbide Epitaxial Wafer as of 2022)

Table 10. Global Market Silicon Carbide Epitaxial Wafer Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Silicon Carbide Epitaxial Wafer Sales Sites and Area Served

Table 12. Manufacturers Silicon Carbide Epitaxial Wafer Product Type

Table 13. Global Silicon Carbide Epitaxial Wafer Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Silicon Carbide Epitaxial Wafer

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. Silicon Carbide Epitaxial Wafer Market Challenges

Table 22. Global Silicon Carbide Epitaxial Wafer Sales by Type (K Units)

Table 23. Global Silicon Carbide Epitaxial Wafer Market Size by Type (M USD)

Table 24. Global Silicon Carbide Epitaxial Wafer Sales (K Units) by Type (2019-2024)

Table 25. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Type
(2019-2024)

Table 26. Global Silicon Carbide Epitaxial Wafer Market Size (M USD) by Type
(2019-2024)

- Table 27. Global Silicon Carbide Epitaxial Wafer Market Size Share by Type (2019-2024)
- Table 28. Global Silicon Carbide Epitaxial Wafer Price (USD/Unit) by Type (2019-2024)
- Table 29. Global Silicon Carbide Epitaxial Wafer Sales (K Units) by Application
- Table 30. Global Silicon Carbide Epitaxial Wafer Market Size by Application
- Table 31. Global Silicon Carbide Epitaxial Wafer Sales by Application (2019-2024) & (K Units)
- Table 32. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Application (2019-2024)
- Table 33. Global Silicon Carbide Epitaxial Wafer Sales by Application (2019-2024) & (M USD)
- Table 34. Global Silicon Carbide Epitaxial Wafer Market Share by Application (2019-2024)
- Table 35. Global Silicon Carbide Epitaxial Wafer Sales Growth Rate by Application (2019-2024)
- Table 36. Global Silicon Carbide Epitaxial Wafer Sales by Region (2019-2024) & (K Units)
- Table 37. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Region (2019-2024)
- Table 38. North America Silicon Carbide Epitaxial Wafer Sales by Country (2019-2024) & (K Units)
- Table 39. Europe Silicon Carbide Epitaxial Wafer Sales by Country (2019-2024) & (K Units)
- Table 40. Asia Pacific Silicon Carbide Epitaxial Wafer Sales by Region (2019-2024) & (K Units)
- Table 41. South America Silicon Carbide Epitaxial Wafer Sales by Country (2019-2024) & (K Units)
- Table 42. Middle East and Africa Silicon Carbide Epitaxial Wafer Sales by Region (2019-2024) & (K Units)
- Table 43. Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Basic Information
- Table 44. Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Product Overview
- Table 45. Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 46. Cree (Wolfspeed) Business Overview
- Table 47. Cree (Wolfspeed) Silicon Carbide Epitaxial Wafer SWOT Analysis
- Table 48. Cree (Wolfspeed) Recent Developments
- Table 49. II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Basic Information
- Table 50. II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Product

Overview

Table 51. II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. II-VI Advanced Materials(Ascatron) Business Overview

Table 53. II-VI Advanced Materials(Ascatron) Silicon Carbide Epitaxial Wafer SWOT Analysis

Table 54. II-VI Advanced Materials(Ascatron) Recent Developments

Table 55. Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Basic Information

Table 56. Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Product Overview

Table 57. Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Showa Denko K.K.(NSSMC) Silicon Carbide Epitaxial Wafer SWOT Analysis

Table 59. Showa Denko K.K.(NSSMC) Business Overview

Table 60. Showa Denko K.K.(NSSMC) Recent Developments

Table 61. Epiworld intenational Silicon Carbide Epitaxial Wafer Basic Information

Table 62. Epiworld intenational Silicon Carbide Epitaxial Wafer Product Overview

Table 63. Epiworld intenational Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. Epiworld intenational Business Overview

Table 65. Epiworld intenational Recent Developments

Table 66. SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Basic Information

Table 67. SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Product Overview

Table 68. SK Siltron(Dupont) Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 69. SK Siltron(Dupont) Business Overview

Table 70. SK Siltron(Dupont) Recent Developments

Table 71. TYSiC Silicon Carbide Epitaxial Wafer Basic Information

Table 72. TYSiC Silicon Carbide Epitaxial Wafer Product Overview

Table 73. TYSiC Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. TYSiC Business Overview

Table 75. TYSiC Recent Developments

Table 76. STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Basic Information

Table 77. STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Product Overview

Table 78. STMicroelectronics (Norstel) Silicon Carbide Epitaxial Wafer Sales (K Units),

Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 79. STMicroelectronics (Norstel) Business Overview

Table 80. STMicroelectronics (Norstel) Recent Developments

Table 81. ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Basic Information

Table 82. ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Product Overview

Table 83. ROHM (Sicrystal) Silicon Carbide Epitaxial Wafer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 84. ROHM (Sicrystal) Business Overview

Table 85. ROHM (Sicrystal) Recent Developments

Table 86. Global Silicon Carbide Epitaxial Wafer Sales Forecast by Region (2025-2030) & (K Units)

Table 87. Global Silicon Carbide Epitaxial Wafer Market Size Forecast by Region (2025-2030) & (M USD)

Table 88. North America Silicon Carbide Epitaxial Wafer Sales Forecast by Country (2025-2030) & (K Units)

Table 89. North America Silicon Carbide Epitaxial Wafer Market Size Forecast by Country (2025-2030) & (M USD)

Table 90. Europe Silicon Carbide Epitaxial Wafer Sales Forecast by Country (2025-2030) & (K Units)

Table 91. Europe Silicon Carbide Epitaxial Wafer Market Size Forecast by Country (2025-2030) & (M USD)

Table 92. Asia Pacific Silicon Carbide Epitaxial Wafer Sales Forecast by Region (2025-2030) & (K Units)

Table 93. Asia Pacific Silicon Carbide Epitaxial Wafer Market Size Forecast by Region (2025-2030) & (M USD)

Table 94. South America Silicon Carbide Epitaxial Wafer Sales Forecast by Country (2025-2030) & (K Units)

Table 95. South America Silicon Carbide Epitaxial Wafer Market Size Forecast by Country (2025-2030) & (M USD)

Table 96. Middle East and Africa Silicon Carbide Epitaxial Wafer Consumption Forecast by Country (2025-2030) & (Units)

Table 97. Middle East and Africa Silicon Carbide Epitaxial Wafer Market Size Forecast by Country (2025-2030) & (M USD)

Table 98. Global Silicon Carbide Epitaxial Wafer Sales Forecast by Type (2025-2030) & (K Units)

Table 99. Global Silicon Carbide Epitaxial Wafer Market Size Forecast by Type (2025-2030) & (M USD)

Table 100. Global Silicon Carbide Epitaxial Wafer Price Forecast by Type (2025-2030) & (USD/Unit)

Table 101. Global Silicon Carbide Epitaxial Wafer Sales (K Units) Forecast by Application (2025-2030)

Table 102. Global Silicon Carbide Epitaxial Wafer Market Size Forecast by Application (2025-2030) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Silicon Carbide Epitaxial Wafer
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Silicon Carbide Epitaxial Wafer Market Size (M USD), 2019-2030
- Figure 5. Global Silicon Carbide Epitaxial Wafer Market Size (M USD) (2019-2030)
- Figure 6. Global Silicon Carbide Epitaxial Wafer Sales (K Units) & (2019-2030)
- 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. Silicon Carbide Epitaxial Wafer Market Size by Country (M USD)
- Figure 11. Silicon Carbide Epitaxial Wafer Sales Share by Manufacturers in 2023
- Figure 12. Global Silicon Carbide Epitaxial Wafer Revenue Share by Manufacturers in 2023
- Figure 13. Silicon Carbide Epitaxial Wafer Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Silicon Carbide Epitaxial Wafer Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Silicon Carbide Epitaxial Wafer Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Silicon Carbide Epitaxial Wafer Market Share by Type
- Figure 18. Sales Market Share of Silicon Carbide Epitaxial Wafer by Type (2019-2024)
- Figure 19. Sales Market Share of Silicon Carbide Epitaxial Wafer by Type in 2023
- Figure 20. Market Size Share of Silicon Carbide Epitaxial Wafer by Type (2019-2024)
- Figure 21. Market Size Market Share of Silicon Carbide Epitaxial Wafer by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Silicon Carbide Epitaxial Wafer Market Share by Application
- Figure 24. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Application (2019-2024)
- Figure 25. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Application in 2023
- Figure 26. Global Silicon Carbide Epitaxial Wafer Market Share by Application (2019-2024)
- Figure 27. Global Silicon Carbide Epitaxial Wafer Market Share by Application in 2023
- Figure 28. Global Silicon Carbide Epitaxial Wafer Sales Growth Rate by Application

(2019-2024)

Figure 29. Global Silicon Carbide Epitaxial Wafer Sales Market Share by Region

(2019-2024)

Figure 30. North America Silicon Carbide Epitaxial Wafer Sales and Growth Rate

(2019-2024) & (K Units)

Figure 31. North America Silicon Carbide Epitaxial Wafer Sales Market Share by

Country in 2023

Figure 32. U.S. Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 33. Canada Silicon Carbide Epitaxial Wafer Sales (K Units) and Growth Rate

(2019-2024)

Figure 34. Mexico Silicon Carbide Epitaxial Wafer Sales (Units) and Growth Rate

(2019-2024)

Figure 35. Europe Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024)

& (K Units)

Figure 36. Europe Silicon Carbide Epitaxial Wafer Sales Market Share by Country in

2023

Figure 37. Germany Silicon Carbide Epitaxial Wafer Sales and Growth Rate

(2019-2024) & (K Units)

Figure 38. France Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024)

& (K Units)

Figure 39. U.K. Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 40. Italy Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 41. Russia Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024)

& (K Units)

Figure 42. Asia Pacific Silicon Carbide Epitaxial Wafer Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Silicon Carbide Epitaxial Wafer Sales Market Share by Region in

2023

Figure 44. China Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 45. Japan Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 46. South Korea Silicon Carbide Epitaxial Wafer Sales and Growth Rate

(2019-2024) & (K Units)

Figure 47. India Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) &

(K Units)

Figure 48. Southeast Asia Silicon Carbide Epitaxial Wafer Sales and Growth Rate

(2019-2024) & (K Units)

Figure 49. South America Silicon Carbide Epitaxial Wafer Sales and Growth Rate (K Units)

Figure 50. South America Silicon Carbide Epitaxial Wafer Sales Market Share by Country in 2023

Figure 51. Brazil Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Silicon Carbide Epitaxial Wafer Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Silicon Carbide Epitaxial Wafer Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Silicon Carbide Epitaxial Wafer Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Silicon Carbide Epitaxial Wafer Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global Silicon Carbide Epitaxial Wafer Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global Silicon Carbide Epitaxial Wafer Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Silicon Carbide Epitaxial Wafer Market Share Forecast by Type (2025-2030)

Figure 65. Global Silicon Carbide Epitaxial Wafer Sales Forecast by Application (2025-2030)

Figure 66. Global Silicon Carbide Epitaxial Wafer Market Share Forecast by Application (2025-2030)

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