

Global Silicon Carbide (SiC) Substrate Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide (SiC) Substrate market size was valued at USD 582.6 million in 2023 and is forecast to a readjusted size of USD 1529.7 million by 2030 with a CAGR of 14.8% during review period.

Silicon carbide substrates (wafers) are single-crystal wafers formed by cutting, grinding, polishing, cleaning, and other processes of silicon carbide crystals.

Cree, II-VI Advanced Materials and ROHM are the top 3 manufacturers of silicon carbide (SiC) substrate globally and account for over 70% of total markets share. Geographically speaking, Asia Pacific is the largest producer of silicon carbide (SiC) substrate, holds a share over 40%, followed by North America and Europe. In terms of product, 6 inch is the largest segment, with a share over 60%. And in terms of application, the largest application is power devices, followed by RF devices.

The Global Info Research report includes an overview of the development of the Silicon Carbide (SiC) Substrate industry chain, the market status of Power Device (4 Inch, 6 Inch), RF Devices (4 Inch, 6 Inch), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Carbide (SiC) Substrate.

Regionally, the report analyzes the Silicon Carbide (SiC) Substrate markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Carbide (SiC) Substrate market, with robust domestic

demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon Carbide (SiC) Substrate market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Carbide (SiC) Substrate industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 4 Inch, 6 Inch).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Carbide (SiC) Substrate market.

Regional Analysis: The report involves examining the Silicon Carbide (SiC) Substrate market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Silicon Carbide (SiC) Substrate market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Carbide (SiC) Substrate:

Company Analysis: Report covers individual Silicon Carbide (SiC) Substrate manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and

attitudes towards Silicon Carbide (SiC) Substrate This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power Device, RF Devices).

Technology Analysis: Report covers specific technologies relevant to Silicon Carbide (SiC) Substrate. It assesses the current state, advancements, and potential future developments in Silicon Carbide (SiC) Substrate areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon Carbide (SiC) Substrate market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Silicon Carbide (SiC) Substrate market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

4 Inch

6 Inch

8 Inch

Market segment by Application

Power Device

RF Devices

Others

Major players covered

Cree (Wolfspeed)

II-VI Advanced Materials

ROHM

Norstel

SICC Materials

Showa Denko

TankeBlue Semiconductor

SK Siltron

Synlight

CENGOL

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Carbide (SiC) Substrate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide (SiC) Substrate, with price, sales, revenue and global market share of Silicon Carbide (SiC) Substrate from 2019 to 2024.

Chapter 3, the Silicon Carbide (SiC) Substrate competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide (SiC) Substrate breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Silicon Carbide (SiC) Substrate market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide (SiC) Substrate.

Chapter 14 and 15, to describe Silicon Carbide (SiC) Substrate sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Silicon Carbide (SiC) Substrate
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Silicon Carbide (SiC) Substrate Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 4 Inch
 - 1.3.3 6 Inch
 - 1.3.4 8 Inch
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Silicon Carbide (SiC) Substrate Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Power Device
 - 1.4.3 RF Devices
 - 1.4.4 Others
- 1.5 Global Silicon Carbide (SiC) Substrate Market Size & Forecast
 - 1.5.1 Global Silicon Carbide (SiC) Substrate Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Silicon Carbide (SiC) Substrate Sales Quantity (2019-2030)
 - 1.5.3 Global Silicon Carbide (SiC) Substrate Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 Cree (Wolfspeed)
 - 2.1.1 Cree (Wolfspeed) Details
 - 2.1.2 Cree (Wolfspeed) Major Business
 - 2.1.3 Cree (Wolfspeed) Silicon Carbide (SiC) Substrate Product and Services
 - 2.1.4 Cree (Wolfspeed) Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Cree (Wolfspeed) Recent Developments/Updates
- 2.2 II-VI Advanced Materials
 - 2.2.1 II-VI Advanced Materials Details
 - 2.2.2 II-VI Advanced Materials Major Business
 - 2.2.3 II-VI Advanced Materials Silicon Carbide (SiC) Substrate Product and Services
 - 2.2.4 II-VI Advanced Materials Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.2.5 II-VI Advanced Materials Recent Developments/Updates
- 2.3 ROHM
 - 2.3.1 ROHM Details
 - 2.3.2 ROHM Major Business
 - 2.3.3 ROHM Silicon Carbide (SiC) Substrate Product and Services
 - 2.3.4 ROHM Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 ROHM Recent Developments/Updates
- 2.4 Norstel
 - 2.4.1 Norstel Details
 - 2.4.2 Norstel Major Business
 - 2.4.3 Norstel Silicon Carbide (SiC) Substrate Product and Services
 - 2.4.4 Norstel Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 Norstel Recent Developments/Updates
- 2.5 SICC Materials
 - 2.5.1 SICC Materials Details
 - 2.5.2 SICC Materials Major Business
 - 2.5.3 SICC Materials Silicon Carbide (SiC) Substrate Product and Services
 - 2.5.4 SICC Materials Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 SICC Materials Recent Developments/Updates
- 2.6 Showa Denko
 - 2.6.1 Showa Denko Details
 - 2.6.2 Showa Denko Major Business
 - 2.6.3 Showa Denko Silicon Carbide (SiC) Substrate Product and Services
 - 2.6.4 Showa Denko Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.6.5 Showa Denko Recent Developments/Updates
- 2.7 TankeBlue Semiconductor
 - 2.7.1 TankeBlue Semiconductor Details
 - 2.7.2 TankeBlue Semiconductor Major Business
 - 2.7.3 TankeBlue Semiconductor Silicon Carbide (SiC) Substrate Product and Services
 - 2.7.4 TankeBlue Semiconductor Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.7.5 TankeBlue Semiconductor Recent Developments/Updates
- 2.8 SK Siltron
 - 2.8.1 SK Siltron Details
 - 2.8.2 SK Siltron Major Business

- 2.8.3 SK Siltron Silicon Carbide (SiC) Substrate Product and Services
- 2.8.4 SK Siltron Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 SK Siltron Recent Developments/Updates
- 2.9 Synlight
 - 2.9.1 Synlight Details
 - 2.9.2 Synlight Major Business
 - 2.9.3 Synlight Silicon Carbide (SiC) Substrate Product and Services
 - 2.9.4 Synlight Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 Synlight Recent Developments/Updates
- 2.10 CENGOL
 - 2.10.1 CENGOL Details
 - 2.10.2 CENGOL Major Business
 - 2.10.3 CENGOL Silicon Carbide (SiC) Substrate Product and Services
 - 2.10.4 CENGOL Silicon Carbide (SiC) Substrate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 CENGOL Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILICON CARBIDE (SiC) SUBSTRATE BY MANUFACTURER

- 3.1 Global Silicon Carbide (SiC) Substrate Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Silicon Carbide (SiC) Substrate Revenue by Manufacturer (2019-2024)
- 3.3 Global Silicon Carbide (SiC) Substrate Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Silicon Carbide (SiC) Substrate by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 Silicon Carbide (SiC) Substrate Manufacturer Market Share in 2023
 - 3.4.2 Top 6 Silicon Carbide (SiC) Substrate Manufacturer Market Share in 2023
- 3.5 Silicon Carbide (SiC) Substrate Market: Overall Company Footprint Analysis
 - 3.5.1 Silicon Carbide (SiC) Substrate Market: Region Footprint
 - 3.5.2 Silicon Carbide (SiC) Substrate Market: Company Product Type Footprint
 - 3.5.3 Silicon Carbide (SiC) Substrate Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Silicon Carbide (SiC) Substrate Market Size by Region

4.1.1 Global Silicon Carbide (SiC) Substrate Sales Quantity by Region (2019-2030)

4.1.2 Global Silicon Carbide (SiC) Substrate Consumption Value by Region (2019-2030)

4.1.3 Global Silicon Carbide (SiC) Substrate Average Price by Region (2019-2030)

4.2 North America Silicon Carbide (SiC) Substrate Consumption Value (2019-2030)

4.3 Europe Silicon Carbide (SiC) Substrate Consumption Value (2019-2030)

4.4 Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value (2019-2030)

4.5 South America Silicon Carbide (SiC) Substrate Consumption Value (2019-2030)

4.6 Middle East and Africa Silicon Carbide (SiC) Substrate Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2030)

5.2 Global Silicon Carbide (SiC) Substrate Consumption Value by Type (2019-2030)

5.3 Global Silicon Carbide (SiC) Substrate Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2030)

6.2 Global Silicon Carbide (SiC) Substrate Consumption Value by Application (2019-2030)

6.3 Global Silicon Carbide (SiC) Substrate Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2030)

7.2 North America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2030)

7.3 North America Silicon Carbide (SiC) Substrate Market Size by Country

7.3.1 North America Silicon Carbide (SiC) Substrate Sales Quantity by Country (2019-2030)

7.3.2 North America Silicon Carbide (SiC) Substrate Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2030)
- 8.2 Europe Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2030)
- 8.3 Europe Silicon Carbide (SiC) Substrate Market Size by Country
 - 8.3.1 Europe Silicon Carbide (SiC) Substrate Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe Silicon Carbide (SiC) Substrate Consumption Value by Country (2019-2030)
 - 8.3.3 Germany Market Size and Forecast (2019-2030)
 - 8.3.4 France Market Size and Forecast (2019-2030)
 - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
 - 8.3.6 Russia Market Size and Forecast (2019-2030)
 - 8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Silicon Carbide (SiC) Substrate Market Size by Region
 - 9.3.1 Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value by Region (2019-2030)
 - 9.3.3 China Market Size and Forecast (2019-2030)
 - 9.3.4 Japan Market Size and Forecast (2019-2030)
 - 9.3.5 Korea Market Size and Forecast (2019-2030)
 - 9.3.6 India Market Size and Forecast (2019-2030)
 - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
 - 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2030)
- 10.2 South America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2030)
- 10.3 South America Silicon Carbide (SiC) Substrate Market Size by Country
 - 10.3.1 South America Silicon Carbide (SiC) Substrate Sales Quantity by Country

(2019-2030)

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

(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

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

(2019-2030)

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

(2019-2030)

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

11.3.1 Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Country
(2019-2030)

11.3.2 Middle East & Africa Silicon Carbide (SiC) Substrate Consumption Value by
Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Silicon Carbide (SiC) Substrate Market Drivers

12.2 Silicon Carbide (SiC) Substrate Market Restraints

12.3 Silicon Carbide (SiC) Substrate Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

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

13.2 Manufacturing Costs Percentage of Silicon Carbide (SiC) Substrate

13.3 Silicon Carbide (SiC) Substrate Production Process

13.4 Silicon Carbide (SiC) Substrate Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Silicon Carbide (SiC) Substrate Typical Distributors

14.3 Silicon Carbide (SiC) Substrate Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Silicon Carbide (SiC) Substrate Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Silicon Carbide (SiC) Substrate Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Cree (Wolfspeed) Basic Information, Manufacturing Base and Competitors

Table 4. Cree (Wolfspeed) Major Business

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

Table 6. Cree (Wolfspeed) Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Cree (Wolfspeed) Recent Developments/Updates

Table 8. II-VI Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 9. II-VI Advanced Materials Major Business

Table 10. II-VI Advanced Materials Silicon Carbide (SiC) Substrate Product and Services

Table 11. II-VI Advanced Materials Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. II-VI Advanced Materials Recent Developments/Updates

Table 13. ROHM Basic Information, Manufacturing Base and Competitors

Table 14. ROHM Major Business

Table 15. ROHM Silicon Carbide (SiC) Substrate Product and Services

Table 16. ROHM Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. ROHM Recent Developments/Updates

Table 18. Norstel Basic Information, Manufacturing Base and Competitors

Table 19. Norstel Major Business

Table 20. Norstel Silicon Carbide (SiC) Substrate Product and Services

Table 21. Norstel Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Norstel Recent Developments/Updates

Table 23. SICC Materials Basic Information, Manufacturing Base and Competitors

Table 24. SICC Materials Major Business

Table 25. SICC Materials Silicon Carbide (SiC) Substrate Product and Services

Table 26. SICC Materials Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. SICC Materials Recent Developments/Updates

Table 28. Showa Denko Basic Information, Manufacturing Base and Competitors

Table 29. Showa Denko Major Business

Table 30. Showa Denko Silicon Carbide (SiC) Substrate Product and Services

Table 31. Showa Denko Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Showa Denko Recent Developments/Updates

Table 33. TankeBlue Semiconductor Basic Information, Manufacturing Base and Competitors

Table 34. TankeBlue Semiconductor Major Business

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

Table 36. TankeBlue Semiconductor Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. TankeBlue Semiconductor Recent Developments/Updates

Table 38. SK Siltron Basic Information, Manufacturing Base and Competitors

Table 39. SK Siltron Major Business

Table 40. SK Siltron Silicon Carbide (SiC) Substrate Product and Services

Table 41. SK Siltron Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. SK Siltron Recent Developments/Updates

Table 43. Synlight Basic Information, Manufacturing Base and Competitors

Table 44. Synlight Major Business

Table 45. Synlight Silicon Carbide (SiC) Substrate Product and Services

Table 46. Synlight Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Synlight Recent Developments/Updates

Table 48. CENGOL Basic Information, Manufacturing Base and Competitors

Table 49. CENGOL Major Business

Table 50. CENGOL Silicon Carbide (SiC) Substrate Product and Services

Table 51. CENGOL Silicon Carbide (SiC) Substrate Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. CENGOL Recent Developments/Updates

Table 53. Global Silicon Carbide (SiC) Substrate Sales Quantity by Manufacturer

(2019-2024) & (K Units)

Table 54. Global Silicon Carbide (SiC) Substrate Revenue by Manufacturer (2019-2024) & (USD Million)

Table 55. Global Silicon Carbide (SiC) Substrate Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 56. Market Position of Manufacturers in Silicon Carbide (SiC) Substrate, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 57. Head Office and Silicon Carbide (SiC) Substrate Production Site of Key Manufacturer

Table 58. Silicon Carbide (SiC) Substrate Market: Company Product Type Footprint

Table 59. Silicon Carbide (SiC) Substrate Market: Company Product Application Footprint

Table 60. Silicon Carbide (SiC) Substrate New Market Entrants and Barriers to Market Entry

Table 61. Silicon Carbide (SiC) Substrate Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global Silicon Carbide (SiC) Substrate Sales Quantity by Region (2019-2024) & (K Units)

Table 63. Global Silicon Carbide (SiC) Substrate Sales Quantity by Region (2025-2030) & (K Units)

Table 64. Global Silicon Carbide (SiC) Substrate Consumption Value by Region (2019-2024) & (USD Million)

Table 65. Global Silicon Carbide (SiC) Substrate Consumption Value by Region (2025-2030) & (USD Million)

Table 66. Global Silicon Carbide (SiC) Substrate Average Price by Region (2019-2024) & (US\$/Unit)

Table 67. Global Silicon Carbide (SiC) Substrate Average Price by Region (2025-2030) & (US\$/Unit)

Table 68. Global Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2024) & (K Units)

Table 69. Global Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)

Table 70. Global Silicon Carbide (SiC) Substrate Consumption Value by Type (2019-2024) & (USD Million)

Table 71. Global Silicon Carbide (SiC) Substrate Consumption Value by Type (2025-2030) & (USD Million)

Table 72. Global Silicon Carbide (SiC) Substrate Average Price by Type (2019-2024) & (US\$/Unit)

Table 73. Global Silicon Carbide (SiC) Substrate Average Price by Type (2025-2030) &

(US\$/Unit)

Table 74. Global Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)

Table 75. Global Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)

Table 76. Global Silicon Carbide (SiC) Substrate Consumption Value by Application (2019-2024) & (USD Million)

Table 77. Global Silicon Carbide (SiC) Substrate Consumption Value by Application (2025-2030) & (USD Million)

Table 78. Global Silicon Carbide (SiC) Substrate Average Price by Application (2019-2024) & (US\$/Unit)

Table 79. Global Silicon Carbide (SiC) Substrate Average Price by Application (2025-2030) & (US\$/Unit)

Table 80. North America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2024) & (K Units)

Table 81. North America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)

Table 82. North America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)

Table 83. North America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)

Table 84. North America Silicon Carbide (SiC) Substrate Sales Quantity by Country (2019-2024) & (K Units)

Table 85. North America Silicon Carbide (SiC) Substrate Sales Quantity by Country (2025-2030) & (K Units)

Table 86. North America Silicon Carbide (SiC) Substrate Consumption Value by Country (2019-2024) & (USD Million)

Table 87. North America Silicon Carbide (SiC) Substrate Consumption Value by Country (2025-2030) & (USD Million)

Table 88. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2024) & (K Units)

Table 89. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)

Table 90. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)

Table 91. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)

Table 92. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Country (2019-2024) & (K Units)

- Table 93. Europe Silicon Carbide (SiC) Substrate Sales Quantity by Country (2025-2030) & (K Units)
- Table 94. Europe Silicon Carbide (SiC) Substrate Consumption Value by Country (2019-2024) & (USD Million)
- Table 95. Europe Silicon Carbide (SiC) Substrate Consumption Value by Country (2025-2030) & (USD Million)
- Table 96. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2024) & (K Units)
- Table 97. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)
- Table 98. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)
- Table 99. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)
- Table 100. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Region (2019-2024) & (K Units)
- Table 101. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity by Region (2025-2030) & (K Units)
- Table 102. Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value by Region (2019-2024) & (USD Million)
- Table 103. Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value by Region (2025-2030) & (USD Million)
- Table 104. South America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2019-2024) & (K Units)
- Table 105. South America Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)
- Table 106. South America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)
- Table 107. South America Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)
- Table 108. South America Silicon Carbide (SiC) Substrate Sales Quantity by Country (2019-2024) & (K Units)
- Table 109. South America Silicon Carbide (SiC) Substrate Sales Quantity by Country (2025-2030) & (K Units)
- Table 110. South America Silicon Carbide (SiC) Substrate Consumption Value by Country (2019-2024) & (USD Million)
- Table 111. South America Silicon Carbide (SiC) Substrate Consumption Value by Country (2025-2030) & (USD Million)
- Table 112. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Type

(2019-2024) & (K Units)

Table 113. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Type (2025-2030) & (K Units)

Table 114. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Application (2019-2024) & (K Units)

Table 115. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Application (2025-2030) & (K Units)

Table 116. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Region (2019-2024) & (K Units)

Table 117. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity by Region (2025-2030) & (K Units)

Table 118. Middle East & Africa Silicon Carbide (SiC) Substrate Consumption Value by Region (2019-2024) & (USD Million)

Table 119. Middle East & Africa Silicon Carbide (SiC) Substrate Consumption Value by Region (2025-2030) & (USD Million)

Table 120. Silicon Carbide (SiC) Substrate Raw Material

Table 121. Key Manufacturers of Silicon Carbide (SiC) Substrate Raw Materials

Table 122. Silicon Carbide (SiC) Substrate Typical Distributors

Table 123. Silicon Carbide (SiC) Substrate Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Silicon Carbide (SiC) Substrate Picture
- Figure 2. Global Silicon Carbide (SiC) Substrate Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Type in 2023
- Figure 4. 4 Inch Examples
- Figure 5. 6 Inch Examples
- Figure 6. 8 Inch Examples
- Figure 7. Global Silicon Carbide (SiC) Substrate Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 8. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Application in 2023
- Figure 9. Power Device Examples
- Figure 10. RF Devices Examples
- Figure 11. Others Examples
- Figure 12. Global Silicon Carbide (SiC) Substrate Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 13. Global Silicon Carbide (SiC) Substrate Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 14. Global Silicon Carbide (SiC) Substrate Sales Quantity (2019-2030) & (K Units)
- Figure 15. Global Silicon Carbide (SiC) Substrate Average Price (2019-2030) & (US\$/Unit)
- Figure 16. Global Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Manufacturer in 2023
- Figure 17. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Manufacturer in 2023
- Figure 18. Producer Shipments of Silicon Carbide (SiC) Substrate by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 19. Top 3 Silicon Carbide (SiC) Substrate Manufacturer (Consumption Value) Market Share in 2023
- Figure 20. Top 6 Silicon Carbide (SiC) Substrate Manufacturer (Consumption Value) Market Share in 2023
- Figure 21. Global Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Region (2019-2030)

Figure 23. North America Silicon Carbide (SiC) Substrate Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe Silicon Carbide (SiC) Substrate Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Silicon Carbide (SiC) Substrate Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Silicon Carbide (SiC) Substrate Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Silicon Carbide (SiC) Substrate Average Price by Type (2019-2030) & (US\$/Unit)

Figure 31. Global Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Silicon Carbide (SiC) Substrate Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Silicon Carbide (SiC) Substrate Average Price by Application (2019-2030) & (US\$/Unit)

Figure 34. North America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Silicon Carbide (SiC) Substrate Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Silicon Carbide (SiC) Substrate Sales Quantity Market Share by

Type (2019-2030)

Figure 42. Europe Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe Silicon Carbide (SiC) Substrate Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific Silicon Carbide (SiC) Substrate Consumption Value Market Share by Region (2019-2030)

Figure 54. China Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Silicon Carbide (SiC) Substrate Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Silicon Carbide (SiC) Substrate Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Silicon Carbide (SiC) Substrate Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Silicon Carbide (SiC) Substrate Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Silicon Carbide (SiC) Substrate Market Drivers

Figure 75. Silicon Carbide (SiC) Substrate Market Restraints

Figure 76. Silicon Carbide (SiC) Substrate Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Silicon Carbide (SiC) Substrate in 2023

Figure 79. Manufacturing Process Analysis of Silicon Carbide (SiC) Substrate

Figure 80. Silicon Carbide (SiC) Substrate Industrial Chain

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

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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