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Global 8-Inch Silicon Carbide Substrates Market Growth 2025-2031

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Abstracts

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The global 8-Inch Silicon Carbide Substrates market size is predicted to grow from US$ 36.2 million in 2025 to US$ 2118 million in 2031; it is expected to grow at a CAGR of 97.0% from 2025 to 2031.

Silicon carbide is an inorganic substance with the chemical formula SiC. It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand.

Wafer refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single wafer with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide wafer is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume. According to different electrical properties, silicon carbide wafer can be divided into two categories: semi-insulating silicon carbide wafer and conductive silicon carbide wafer. These two types of wafer are clearly used to manufacture discrete devices such

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as power devices and radio frequency devices after epitaxial growth.

At present, 6-inch SiC wafer still occupy the mainstream market, but 8-inch wafer are gradually penetrating. Compared with 6-inch wafer, the cost of 8-inch SiC wafer can be reduced by about 35%, and more wafers can be cut out with less edge waste, which greatly improves the effective utilization of materials. Therefore, domestic and foreign manufacturers are accelerating research and development, expanding production, and entering the 8-inch silicon carbide market.

From the perspective of the global silicon carbide wafer material market, Wolfspeed, Coherent, Rohm, etc. still occupy a dominant position in the industry. However, in recent years, my country's silicon carbide material market has also been very hot. Wafer manufacturers such as CETC, TankeBlue, SICC, Hebei Synlight Crystal, and Sanan Optoelectronics have all achieved mass production. From the perspective of the terminal market, the demand for silicon carbide remains strong, whether in automobiles, photovoltaics, or industry. As the first car company in the industry to apply silicon carbide on a large scale, Tesla's Model 3 and Model Y models are selling well. In 2023, the penetration rate of silicon carbide in the field of pure electric passenger vehicles will be 25%, of which Model 3 and Model Y will contribute 60% to 70%. At the same time, driven by new car-making forces at home and abroad, the market structure of silicon carbide is gradually becoming diversified. In 2023, there will be a number of standard silicon carbide models in the price range of 200,000 to 250,000 yuan, such as Xiaopeng G6, Zeekr X, and Zhiji LS6. The high-performance strategy of new car companies is accelerating the market penetration of silicon carbide. In the future, all models with a price of more than 200,000 yuan may be equipped with silicon carbide devices as standard. Not only new energy vehicles, but also charging piles, photovoltaics, and industrial markets have great potential demand for silicon carbide. Wind, solar, storage, and industrial demand are also gradually increasing the application of silicon carbide devices and modules to cope with high-frequency, small-volume, and energy-saving scenarios, and the application scale is also considerable.

LP Information, Inc. (LPI) ' newest research report, the “8-Inch Silicon Carbide Substrates Industry Forecast” looks at past sales and reviews total world 8-Inch Silicon Carbide Substrates sales in 2024, providing a comprehensive analysis by region and market sector of projected 8-Inch Silicon Carbide Substrates sales for 2025 through 2031. With 8-Inch Silicon Carbide Substrates sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 8-Inch Silicon Carbide Substrates industry.

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This Insight Report provides a comprehensive analysis of the global 8-Inch Silicon Carbide Substrates landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 8-Inch Silicon Carbide Substrates portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 8-Inch Silicon Carbide Substrates market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 8-Inch Silicon Carbide Substrates and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 8-Inch Silicon Carbide Substrates.

This report presents a comprehensive overview, market shares, and growth opportunities of 8-Inch Silicon Carbide Substrates market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Conductive Type

Semi-insulating Type

Segmentation by Application:

Power Device

RF Devices

Others

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Wolfspeed

Coherent

ROHM Group (SiCrystal)

STMicroelectronics

SK Siltron

CETC

Resonac

TankeBlue

SICC

Hebei Synlight Crystal

San'an Optoelectronics

Key Questions Addressed in this Report

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What is the 10-year outlook for the global 8-Inch Silicon Carbide Substrates market?

What factors are driving 8-Inch Silicon Carbide Substrates market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 8-Inch Silicon Carbide Substrates market opportunities vary by end market size?

How does 8-Inch Silicon Carbide Substrates break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global 8-Inch Silicon Carbide Substrates Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for 8-Inch Silicon Carbide Substrates by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for 8-Inch Silicon Carbide Substrates by Country/Region, 2020, 2024 & 2031
2.2 8-Inch Silicon Carbide Substrates Segment by Type
  2.2.1 Conductive Type
  2.2.2 Semi-insulating Type
2.3 8-Inch Silicon Carbide Substrates Sales by Type
  2.3.1 Global 8-Inch Silicon Carbide Substrates Sales Market Share by Type (2020-2025)
  2.3.2 Global 8-Inch Silicon Carbide Substrates Revenue and Market Share by Type (2020-2025)
  2.3.3 Global 8-Inch Silicon Carbide Substrates Sale Price by Type (2020-2025)
2.4 8-Inch Silicon Carbide Substrates Segment by Application
  2.4.1 Power Device
  2.4.2 RF Devices
  2.4.3 Others
2.5 8-Inch Silicon Carbide Substrates Sales by Application
  2.5.1 Global 8-Inch Silicon Carbide Substrates Sale Market Share by Application (2020-2025)
  2.5.2 Global 8-Inch Silicon Carbide Substrates Revenue and Market Share by Application (2020-2025)

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2.5.3 Global 8-Inch Silicon Carbide Substrates Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global 8-Inch Silicon Carbide Substrates Breakdown Data by Company
3.1.1 Global 8-Inch Silicon Carbide Substrates Annual Sales by Company (2020-2025)
3.1.2 Global 8-Inch Silicon Carbide Substrates Sales Market Share by Company (2020-2025)
3.2 Global 8-Inch Silicon Carbide Substrates Annual Revenue by Company (2020-2025)
3.2.1 Global 8-Inch Silicon Carbide Substrates Revenue by Company (2020-2025)
3.2.2 Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Company (2020-2025)
3.3 Global 8-Inch Silicon Carbide Substrates Sale Price by Company
3.4 Key Manufacturers 8-Inch Silicon Carbide Substrates Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers 8-Inch Silicon Carbide Substrates Product Location Distribution
3.4.2 Players 8-Inch Silicon Carbide Substrates Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 8-INCH SILICON CARBIDE SUBSTRATES BY GEOGRAPHIC REGION

4.1 World Historic 8-Inch Silicon Carbide Substrates Market Size by Geographic Region (2020-2025)
4.1.1 Global 8-Inch Silicon Carbide Substrates Annual Sales by Geographic Region (2020-2025)
4.1.2 Global 8-Inch Silicon Carbide Substrates Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic 8-Inch Silicon Carbide Substrates Market Size by Country/Region (2020-2025)
4.2.1 Global 8-Inch Silicon Carbide Substrates Annual Sales by Country/Region (2020-2025)
4.2.2 Global 8-Inch Silicon Carbide Substrates Annual Revenue by Country/Region (2020-2025)

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4.3 Americas 8-Inch Silicon Carbide Substrates Sales Growth
4.4 APAC 8-Inch Silicon Carbide Substrates Sales Growth
4.5 Europe 8-Inch Silicon Carbide Substrates Sales Growth
4.6 Middle East & Africa 8-Inch Silicon Carbide Substrates Sales Growth

5 AMERICAS

5.1 Americas 8-Inch Silicon Carbide Substrates Sales by Country
  5.1.1 Americas 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025)
  5.1.2 Americas 8-Inch Silicon Carbide Substrates Revenue by Country (2020-2025)
5.2 Americas 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025)
5.3 Americas 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC 8-Inch Silicon Carbide Substrates Sales by Region
  6.1.1 APAC 8-Inch Silicon Carbide Substrates Sales by Region (2020-2025)
  6.1.2 APAC 8-Inch Silicon Carbide Substrates Revenue by Region (2020-2025)
6.2 APAC 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025)
6.3 APAC 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe 8-Inch Silicon Carbide Substrates by Country
  7.1.1 Europe 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025)
  7.1.2 Europe 8-Inch Silicon Carbide Substrates Revenue by Country (2020-2025)
7.2 Europe 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025)
7.3 Europe 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025)

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7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 8-Inch Silicon Carbide Substrates by Country
  8.1.1 Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025)
  8.1.2 Middle East & Africa 8-Inch Silicon Carbide Substrates Revenue by Country (2020-2025)
8.2 Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025)
8.3 Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of 8-Inch Silicon Carbide Substrates
10.3 Manufacturing Process Analysis of 8-Inch Silicon Carbide Substrates
10.4 Industry Chain Structure of 8-Inch Silicon Carbide Substrates

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels

+357 96 030922
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11.1.2 Indirect Channels
11.2 8-Inch Silicon Carbide Substrates Distributors
11.3 8-Inch Silicon Carbide Substrates Customer

12 WORLD FORECAST REVIEW FOR 8-INCH SILICON CARBIDE SUBSTRATES BY GEOGRAPHIC REGION

12.1 Global 8-Inch Silicon Carbide Substrates Market Size Forecast by Region
12.1.1 Global 8-Inch Silicon Carbide Substrates Forecast by Region (2026-2031)
12.1.2 Global 8-Inch Silicon Carbide Substrates Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global 8-Inch Silicon Carbide Substrates Forecast by Type (2026-2031)
12.7 Global 8-Inch Silicon Carbide Substrates Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Wolfspeed
13.1.1 Wolfspeed Company Information
13.1.2 Wolfspeed 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.1.3 Wolfspeed 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 Wolfspeed Main Business Overview
13.1.5 Wolfspeed Latest Developments
13.2 Coherent
13.2.1 Coherent Company Information
13.2.2 Coherent 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.2.3 Coherent 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 Coherent Main Business Overview
13.2.5 Coherent Latest Developments
13.3 ROHM Group (SiCrystal)
13.3.1 ROHM Group (SiCrystal) Company Information
13.3.2 ROHM Group (SiCrystal) 8-Inch Silicon Carbide Substrates Product Portfolios

+357 96 030922
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and Specifications
13.3.3 ROHM Group (SiCrystal) 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 ROHM Group (SiCrystal) Main Business Overview
13.3.5 ROHM Group (SiCrystal) Latest Developments
13.4 STMicroelectronics
13.4.1 STMicroelectronics Company Information
13.4.2 STMicroelectronics 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.4.3 STMicroelectronics 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 STMicroelectronics Main Business Overview
13.4.5 STMicroelectronics Latest Developments
13.5 SK Siltron
13.5.1 SK Siltron Company Information
13.5.2 SK Siltron 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.5.3 SK Siltron 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 SK Siltron Main Business Overview
13.5.5 SK Siltron Latest Developments
13.6 CETC
13.6.1 CETC Company Information
13.6.2 CETC 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.6.3 CETC 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 CETC Main Business Overview
13.6.5 CETC Latest Developments
13.7 Resonac
13.7.1 Resonac Company Information
13.7.2 Resonac 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.7.3 Resonac 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Resonac Main Business Overview
13.7.5 Resonac Latest Developments
13.8 TankeBlue
13.8.1 TankeBlue Company Information
13.8.2 TankeBlue 8-Inch Silicon Carbide Substrates Product Portfolios and

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Specifications
13.8.3 TankeBlue 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 TankeBlue Main Business Overview
13.8.5 TankeBlue Latest Developments
13.9 SICC
13.9.1 SICC Company Information
13.9.2 SICC 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.9.3 SICC 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 SICC Main Business Overview
13.9.5 SICC Latest Developments
13.10 Hebei Synlight Crystal
13.10.1 Hebei Synlight Crystal Company Information
13.10.2 Hebei Synlight Crystal 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.10.3 Hebei Synlight Crystal 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 Hebei Synlight Crystal Main Business Overview
13.10.5 Hebei Synlight Crystal Latest Developments
13.11 San'an Optoelectronics
13.11.1 San'an Optoelectronics Company Information
13.11.2 San'an Optoelectronics 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
13.11.3 San'an Optoelectronics 8-Inch Silicon Carbide Substrates Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 San'an Optoelectronics Main Business Overview
13.11.5 San'an Optoelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. 8-Inch Silicon Carbide Substrates Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. 8-Inch Silicon Carbide Substrates Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Conductive Type
Table 4. Major Players of Semi-insulating Type
Table 5. Global 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025) & (K Units)
Table 6. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Type (2020-2025)
Table 7. Global 8-Inch Silicon Carbide Substrates Revenue by Type (2020-2025) & ($ million)
Table 8. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Type (2020-2025)
Table 9. Global 8-Inch Silicon Carbide Substrates Sale Price by Type (2020-2025) & (US$/Unit)
Table 10. Global 8-Inch Silicon Carbide Substrates Sale by Application (2020-2025) & (K Units)
Table 11. Global 8-Inch Silicon Carbide Substrates Sale Market Share by Application (2020-2025)
Table 12. Global 8-Inch Silicon Carbide Substrates Revenue by Application (2020-2025) & ($ million)
Table 13. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Application (2020-2025)
Table 14. Global 8-Inch Silicon Carbide Substrates Sale Price by Application (2020-2025) & (US$/Unit)
Table 15. Global 8-Inch Silicon Carbide Substrates Sales by Company (2020-2025) & (K Units)
Table 16. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Company (2020-2025)
Table 17. Global 8-Inch Silicon Carbide Substrates Revenue by Company (2020-2025) & ($ millions)
Table 18. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Company (2020-2025)
Table 19. Global 8-Inch Silicon Carbide Substrates Sale Price by Company (2020-2025)

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& (US$/Unit)
Table 20. Key Manufacturers 8-Inch Silicon Carbide Substrates Producing Area Distribution and Sales Area
Table 21. Players 8-Inch Silicon Carbide Substrates Products Offered
Table 22. 8-Inch Silicon Carbide Substrates Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global 8-Inch Silicon Carbide Substrates Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global 8-Inch Silicon Carbide Substrates Sales Market Share Geographic Region (2020-2025)
Table 27. Global 8-Inch Silicon Carbide Substrates Revenue by Geographic Region (2020-2025) & ($ millions)
Table 28. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global 8-Inch Silicon Carbide Substrates Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Country/Region (2020-2025)
Table 31. Global 8-Inch Silicon Carbide Substrates Revenue by Country/Region (2020-2025) & ($ millions)
Table 32. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025) & (K Units)
Table 34. Americas 8-Inch Silicon Carbide Substrates Sales Market Share by Country (2020-2025)
Table 35. Americas 8-Inch Silicon Carbide Substrates Revenue by Country (2020-2025) & ($ millions)
Table 36. Americas 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025) & (K Units)
Table 37. Americas 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025) & (K Units)
Table 38. APAC 8-Inch Silicon Carbide Substrates Sales by Region (2020-2025) & (K Units)
Table 39. APAC 8-Inch Silicon Carbide Substrates Sales Market Share by Region (2020-2025)
Table 40. APAC 8-Inch Silicon Carbide Substrates Revenue by Region (2020-2025) &

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($ millions)
Table 41. APAC 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025) & (K Units)
Table 42. APAC 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025) & (K Units)
Table 43. Europe 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025) & (K Units)
Table 44. Europe 8-Inch Silicon Carbide Substrates Revenue by Country (2020-2025) & ($ millions)
Table 45. Europe 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025) & (K Units)
Table 46. Europe 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa 8-Inch Silicon Carbide Substrates Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of 8-Inch Silicon Carbide Substrates
Table 52. Key Market Challenges & Risks of 8-Inch Silicon Carbide Substrates
Table 53. Key Industry Trends of 8-Inch Silicon Carbide Substrates
Table 54. 8-Inch Silicon Carbide Substrates Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. 8-Inch Silicon Carbide Substrates Distributors List
Table 57. 8-Inch Silicon Carbide Substrates Customer List
Table 58. Global 8-Inch Silicon Carbide Substrates Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global 8-Inch Silicon Carbide Substrates Revenue Forecast by Region (2026-2031) & ($ millions)
Table 60. Americas 8-Inch Silicon Carbide Substrates Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas 8-Inch Silicon Carbide Substrates Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 62. APAC 8-Inch Silicon Carbide Substrates Sales Forecast by Region (2026-2031) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 63. APAC 8-Inch Silicon Carbide Substrates Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 64. Europe 8-Inch Silicon Carbide Substrates Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe 8-Inch Silicon Carbide Substrates Revenue Forecast by Country (2026-2031) & ($ millions)
Table 66. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa 8-Inch Silicon Carbide Substrates Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Global 8-Inch Silicon Carbide Substrates Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global 8-Inch Silicon Carbide Substrates Revenue Forecast by Type (2026-2031) & ($ millions)
Table 70. Global 8-Inch Silicon Carbide Substrates Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global 8-Inch Silicon Carbide Substrates Revenue Forecast by Application (2026-2031) & ($ millions)
Table 72. Wolfspeed Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 73. Wolfspeed 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 74. Wolfspeed 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 75. Wolfspeed Main Business
Table 76. Wolfspeed Latest Developments
Table 77. Coherent Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 78. Coherent 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 79. Coherent 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 80. Coherent Main Business
Table 81. Coherent Latest Developments
Table 82. ROHM Group (SiCrystal) Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 83. ROHM Group (SiCrystal) 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 84. ROHM Group (SiCrystal) 8-Inch Silicon Carbide Substrates Sales (K Units),

+357 96 030922
info@marketpublishers.com

Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 85. ROHM Group (SiCrystal) Main Business
Table 86. ROHM Group (SiCrystal) Latest Developments
Table 87. STMicroelectronics Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 88. STMicroelectronics 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 89. STMicroelectronics 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 90. STMicroelectronics Main Business
Table 91. STMicroelectronics Latest Developments
Table 92. SK Siltron Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 93. SK Siltron 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 94. SK Siltron 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 95. SK Siltron Main Business
Table 96. SK Siltron Latest Developments
Table 97. CETC Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 98. CETC 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 99. CETC 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 100. CETC Main Business
Table 101. CETC Latest Developments
Table 102. Resonac Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 103. Resonac 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 104. Resonac 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 105. Resonac Main Business
Table 106. Resonac Latest Developments
Table 107. TankeBlue Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 108. TankeBlue 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 109. TankeBlue 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($

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Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 110. TankeBlue Main Business
Table 111. TankeBlue Latest Developments
Table 112. SICC Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 113. SICC 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 114. SICC 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 115. SICC Main Business
Table 116. SICC Latest Developments
Table 117. Hebei Synlight Crystal Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 118. Hebei Synlight Crystal 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 119. Hebei Synlight Crystal 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 120. Hebei Synlight Crystal Main Business
Table 121. Hebei Synlight Crystal Latest Developments
Table 122. San'an Optoelectronics Basic Information, 8-Inch Silicon Carbide Substrates Manufacturing Base, Sales Area and Its Competitors
Table 123. San'an Optoelectronics 8-Inch Silicon Carbide Substrates Product Portfolios and Specifications
Table 124. San'an Optoelectronics 8-Inch Silicon Carbide Substrates Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 125. San'an Optoelectronics Main Business
Table 126. San'an Optoelectronics Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of 8-Inch Silicon Carbide Substrates
Figure 2. 8-Inch Silicon Carbide Substrates Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global 8-Inch Silicon Carbide Substrates Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global 8-Inch Silicon Carbide Substrates Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. 8-Inch Silicon Carbide Substrates Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. 8-Inch Silicon Carbide Substrates Sales Market Share by Country/Region (2024)
Figure 10. 8-Inch Silicon Carbide Substrates Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Conductive Type
Figure 12. Product Picture of Semi-insulating Type
Figure 13. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Type in 2025
Figure 14. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Type (2020-2025)
Figure 15. 8-Inch Silicon Carbide Substrates Consumed in Power Device
Figure 16. Global 8-Inch Silicon Carbide Substrates Market: Power Device (2020-2025) & (K Units)
Figure 17. 8-Inch Silicon Carbide Substrates Consumed in RF Devices
Figure 18. Global 8-Inch Silicon Carbide Substrates Market: RF Devices (2020-2025) & (K Units)
Figure 19. 8-Inch Silicon Carbide Substrates Consumed in Others
Figure 20. Global 8-Inch Silicon Carbide Substrates Market: Others (2020-2025) & (K Units)
Figure 21. Global 8-Inch Silicon Carbide Substrates Sale Market Share by Application (2024)
Figure 22. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Application in 2025
Figure 23. 8-Inch Silicon Carbide Substrates Sales by Company in 2025 (K Units)

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Figure 24. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Company in 2025
Figure 25. 8-Inch Silicon Carbide Substrates Revenue by Company in 2025 ($ millions)
Figure 26. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Company in 2025
Figure 27. Global 8-Inch Silicon Carbide Substrates Sales Market Share by Geographic Region (2020-2025)
Figure 28. Global 8-Inch Silicon Carbide Substrates Revenue Market Share by Geographic Region in 2025
Figure 29. Americas 8-Inch Silicon Carbide Substrates Sales 2020-2025 (K Units)
Figure 30. Americas 8-Inch Silicon Carbide Substrates Revenue 2020-2025 ($ millions)
Figure 31. APAC 8-Inch Silicon Carbide Substrates Sales 2020-2025 (K Units)
Figure 32. APAC 8-Inch Silicon Carbide Substrates Revenue 2020-2025 ($ millions)
Figure 33. Europe 8-Inch Silicon Carbide Substrates Sales 2020-2025 (K Units)
Figure 34. Europe 8-Inch Silicon Carbide Substrates Revenue 2020-2025 ($ millions)
Figure 35. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales 2020-2025 (K Units)
Figure 36. Middle East & Africa 8-Inch Silicon Carbide Substrates Revenue 2020-2025 ($ millions)
Figure 37. Americas 8-Inch Silicon Carbide Substrates Sales Market Share by Country in 2025
Figure 38. Americas 8-Inch Silicon Carbide Substrates Revenue Market Share by Country (2020-2025)
Figure 39. Americas 8-Inch Silicon Carbide Substrates Sales Market Share by Type (2020-2025)
Figure 40. Americas 8-Inch Silicon Carbide Substrates Sales Market Share by Application (2020-2025)
Figure 41. United States 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 42. Canada 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 43. Mexico 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 44. Brazil 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 45. APAC 8-Inch Silicon Carbide Substrates Sales Market Share by Region in 2025
Figure 46. APAC 8-Inch Silicon Carbide Substrates Revenue Market Share by Region (2020-2025)

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Figure 47. APAC 8-Inch Silicon Carbide Substrates Sales Market Share by Type (2020-2025)
Figure 48. APAC 8-Inch Silicon Carbide Substrates Sales Market Share by Application (2020-2025)
Figure 49. China 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 50. Japan 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 51. South Korea 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 52. Southeast Asia 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 53. India 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 54. Australia 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 55. China Taiwan 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 56. Europe 8-Inch Silicon Carbide Substrates Sales Market Share by Country in 2025
Figure 57. Europe 8-Inch Silicon Carbide Substrates Revenue Market Share by Country (2020-2025)
Figure 58. Europe 8-Inch Silicon Carbide Substrates Sales Market Share by Type (2020-2025)
Figure 59. Europe 8-Inch Silicon Carbide Substrates Sales Market Share by Application (2020-2025)
Figure 60. Germany 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 61. France 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 62. UK 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 63. Italy 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 64. Russia 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 65. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales Market Share by Country (2020-2025)
Figure 66. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales Market Share

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by Type (2020-2025)
Figure 67. Middle East & Africa 8-Inch Silicon Carbide Substrates Sales Market Share by Application (2020-2025)
Figure 68. Egypt 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 69. South Africa 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 70. Israel 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 71. Turkey 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 72. GCC Countries 8-Inch Silicon Carbide Substrates Revenue Growth 2020-2025 ($ millions)
Figure 73. Manufacturing Cost Structure Analysis of 8-Inch Silicon Carbide Substrates in 2025
Figure 74. Manufacturing Process Analysis of 8-Inch Silicon Carbide Substrates
Figure 75. Industry Chain Structure of 8-Inch Silicon Carbide Substrates
Figure 76. Channels of Distribution
Figure 77. Global 8-Inch Silicon Carbide Substrates Sales Market Forecast by Region (2026-2031)
Figure 78. Global 8-Inch Silicon Carbide Substrates Revenue Market Share Forecast by Region (2026-2031)
Figure 79. Global 8-Inch Silicon Carbide Substrates Sales Market Share Forecast by Type (2026-2031)
Figure 80. Global 8-Inch Silicon Carbide Substrates Revenue Market Share Forecast by Type (2026-2031)
Figure 81. Global 8-Inch Silicon Carbide Substrates Sales Market Share Forecast by Application (2026-2031)
Figure 82. Global 8-Inch Silicon Carbide Substrates Revenue Market Share Forecast by Application (2026-2031)

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