

Global Semi-insulator SiC Substrates Market Research Report 2026(Status and Outlook)

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Abstracts

Silicon carbide is an inorganic substance with the chemical formula SiC. It is made of raw materials such as quartz sand, petroleum coke (or coal coke), and sawdust (salt is needed to produce green silicon carbide) through high-temperature smelting in a resistance furnace. Silicon carbide is a semiconductor that exists in nature in the form of the extremely rare mineral moissanite. Since 1893, it has been mass-produced as powder and crystals for use as abrasives, etc. Among non-oxide high-tech refractory raw materials such as C, N, and B, silicon carbide is the most widely used and economical one, which can be called diamond sand or refractory sand. Wafer refers to the cutting, grinding, and polishing of crystals along a specific crystal direction to obtain a clean single wafer with specific crystal planes and appropriate electrical, optical, and mechanical properties for growing epitaxial layers. Silicon carbide wafer is the core material of the newly developed wide bandgap semiconductor. The devices made with it have the characteristics of high temperature resistance, high voltage resistance, high frequency, high power, and radiation resistance. It has the advantages of fast switching speed and high efficiency, which can greatly reduce product power consumption, improve energy conversion efficiency, and reduce product volume. Semi-insulating silicon carbide substrate is a single crystal slice formed by cutting, grinding, polishing, cleaning and other processes of semi-insulating silicon carbide crystal. As an important raw material for the third-generation semiconductor, single crystal substrate slices can be made into silicon carbide-based radio frequency devices through heteroepitaxial growth and device manufacturing. It is an important basic material for the development of the third-generation semiconductor industry. By growing a gallium nitride epitaxial layer on a semi-insulating silicon carbide substrate, a silicon carbide-based gallium nitride epitaxial wafer is produced, which can be further made into microwave radio frequency devices such as HEMT and used in information communication, radio detection and other fields. 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. In the global semi-insulating silicon carbide substrate market, Wolfspeed, Coherent and Tianyue Advanced Technology occupy almost the entire market share.

The global Semi-insulator SiC Substrates market size was estimated at USD 284.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.30% during the forecast period.

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

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

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

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

Global Semi-insulator SiC Substrates Market: Market Segmentation Analysis

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

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

Key Company

Wolfspeed
ROHM (sicrystal)
Coherent
SK Siltron
Resonac
STMicroelectronics
TankeBlue Semiconductor
SICC Materials
Hebei Synlight Crystal
CETC
San'an Optoelectronics

Market Segmentation (by Type)

4 Inch
6 Inch

Market Segmentation (by Application)

5G Communication
Radar
Radio Detector
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Semi-insulator SiC Substrates Market

Overview of the regional outlook of the Semi-insulator SiC Substrates Market:

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.

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 Semi-insulator SiC Substrates Market and its likely evolution in the short to mid-term, and long term.

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

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

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

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

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

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

Chapter 9 shares the main producing countries of Semi-insulator SiC Substrates, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

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

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

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

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

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with

historical and forecast data, which is analyzed to tell you why your market is set to change

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

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

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

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

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

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

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

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

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

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

Provides insight into the market through Value Chain

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

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Semi-insulator SiC Substrates
- 1.2 Key Market Segments
 - 1.2.1 Semi-insulator SiC Substrates Segment by Type
 - 1.2.2 Semi-insulator SiC Substrates 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 SEMI-INSULATOR SiC SUBSTRATES MARKET OVERVIEW

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

3 SEMI-INSULATOR SiC SUBSTRATES MARKET COMPETITIVE LANDSCAPE

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

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SEMI-INSULATOR SiC SUBSTRATES INDUSTRY CHAIN ANALYSIS

4.1 Semi-insulator SiC Substrates 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 SEMI-INSULATOR SiC SUBSTRATES MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Semi-insulator SiC Substrates Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Semi-insulator SiC Substrates

Market

5.7 ESG Ratings of Leading Companies

6 SEMI-INSULATOR SiC SUBSTRATES MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Semi-insulator SiC Substrates Sales Market Share by Type (2020-2025)

6.3 Global Semi-insulator SiC Substrates Market Size by Type (2020-2025)

6.4 Global Semi-insulator SiC Substrates Price by Type (2020-2025)

7 SEMI-INSULATOR SiC SUBSTRATES MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Semi-insulator SiC Substrates Market Sales by Application (2020-2025)
- 7.3 Global Semi-insulator SiC Substrates Market Size (M USD) by Application (2020-2025)
- 7.4 Global Semi-insulator SiC Substrates Sales Growth Rate by Application (2020-2025)

8 SEMI-INSULATOR SiC SUBSTRATES MARKET SALES BY REGION

- 8.1 Global Semi-insulator SiC Substrates Sales by Region
 - 8.1.1 Global Semi-insulator SiC Substrates Sales by Region
 - 8.1.2 Global Semi-insulator SiC Substrates Sales Market Share by Region
- 8.2 Global Semi-insulator SiC Substrates Market Size by Region
 - 8.2.1 Global Semi-insulator SiC Substrates Market Size by Region
 - 8.2.2 Global Semi-insulator SiC Substrates Market Size by Region
- 8.3 North America
 - 8.3.1 North America Semi-insulator SiC Substrates Sales by Country
 - 8.3.2 North America Semi-insulator SiC Substrates Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Semi-insulator SiC Substrates Sales by Country
 - 8.4.2 Europe Semi-insulator SiC Substrates Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Semi-insulator SiC Substrates Sales by Region
 - 8.5.2 Asia Pacific Semi-insulator SiC Substrates Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview

- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Semi-insulator SiC Substrates Sales by Country
 - 8.6.2 South America Semi-insulator SiC Substrates Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Semi-insulator SiC Substrates Sales by Region
 - 8.7.2 Middle East and Africa Semi-insulator SiC Substrates Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SEMI-INSULATOR SiC SUBSTRATES MARKET PRODUCTION BY REGION

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

9.7.2 China Semi-insulator SiC Substrates Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Wolfspeed

- 10.1.1 Wolfspeed Basic Information
- 10.1.2 Wolfspeed Semi-insulator SiC Substrates Product Overview
- 10.1.3 Wolfspeed Semi-insulator SiC Substrates Product Market Performance
- 10.1.4 Wolfspeed Business Overview
- 10.1.5 Wolfspeed SWOT Analysis
- 10.1.6 Wolfspeed Recent Developments

10.2 ROHM (sicrystal)

- 10.2.1 ROHM (sicrystal) Basic Information
- 10.2.2 ROHM (sicrystal) Semi-insulator SiC Substrates Product Overview
- 10.2.3 ROHM (sicrystal) Semi-insulator SiC Substrates Product Market Performance
- 10.2.4 ROHM (sicrystal) Business Overview
- 10.2.5 ROHM (sicrystal) SWOT Analysis
- 10.2.6 ROHM (sicrystal) Recent Developments

10.3 Coherent

- 10.3.1 Coherent Basic Information
- 10.3.2 Coherent Semi-insulator SiC Substrates Product Overview
- 10.3.3 Coherent Semi-insulator SiC Substrates Product Market Performance
- 10.3.4 Coherent Business Overview
- 10.3.5 Coherent SWOT Analysis
- 10.3.6 Coherent Recent Developments

10.4 SK Siltron

- 10.4.1 SK Siltron Basic Information
- 10.4.2 SK Siltron Semi-insulator SiC Substrates Product Overview
- 10.4.3 SK Siltron Semi-insulator SiC Substrates Product Market Performance
- 10.4.4 SK Siltron Business Overview
- 10.4.5 SK Siltron Recent Developments

10.5 Resonac

- 10.5.1 Resonac Basic Information
- 10.5.2 Resonac Semi-insulator SiC Substrates Product Overview
- 10.5.3 Resonac Semi-insulator SiC Substrates Product Market Performance
- 10.5.4 Resonac Business Overview
- 10.5.5 Resonac Recent Developments

10.6 STMicroelectronics

- 10.6.1 STMicroelectronics Basic Information
- 10.6.2 STMicroelectronics Semi-insulator SiC Substrates Product Overview
- 10.6.3 STMicroelectronics Semi-insulator SiC Substrates Product Market Performance
- 10.6.4 STMicroelectronics Business Overview
- 10.6.5 STMicroelectronics Recent Developments
- 10.7 TankeBlue Semiconductor
 - 10.7.1 TankeBlue Semiconductor Basic Information
 - 10.7.2 TankeBlue Semiconductor Semi-insulator SiC Substrates Product Overview
 - 10.7.3 TankeBlue Semiconductor Semi-insulator SiC Substrates Product Market Performance
 - 10.7.4 TankeBlue Semiconductor Business Overview
 - 10.7.5 TankeBlue Semiconductor Recent Developments
- 10.8 SICC Materials
 - 10.8.1 SICC Materials Basic Information
 - 10.8.2 SICC Materials Semi-insulator SiC Substrates Product Overview
 - 10.8.3 SICC Materials Semi-insulator SiC Substrates Product Market Performance
 - 10.8.4 SICC Materials Business Overview
 - 10.8.5 SICC Materials Recent Developments
- 10.9 Hebei Synlight Crystal
 - 10.9.1 Hebei Synlight Crystal Basic Information
 - 10.9.2 Hebei Synlight Crystal Semi-insulator SiC Substrates Product Overview
 - 10.9.3 Hebei Synlight Crystal Semi-insulator SiC Substrates Product Market Performance
 - 10.9.4 Hebei Synlight Crystal Business Overview
 - 10.9.5 Hebei Synlight Crystal Recent Developments
- 10.10 CETC
 - 10.10.1 CETC Basic Information
 - 10.10.2 CETC Semi-insulator SiC Substrates Product Overview
 - 10.10.3 CETC Semi-insulator SiC Substrates Product Market Performance
 - 10.10.4 CETC Business Overview
 - 10.10.5 CETC Recent Developments
- 10.11 San'an Optoelectronics
 - 10.11.1 San'an Optoelectronics Basic Information
 - 10.11.2 San'an Optoelectronics Semi-insulator SiC Substrates Product Overview
 - 10.11.3 San'an Optoelectronics Semi-insulator SiC Substrates Product Market Performance
 - 10.11.4 San'an Optoelectronics Business Overview
 - 10.11.5 San'an Optoelectronics Recent Developments

11 SEMI-INSULATOR SiC SUBSTRATES MARKET FORECAST BY REGION

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

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

- 12.1 Global Semi-insulator SiC Substrates Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Semi-insulator SiC Substrates by Type (2026-2035)
 - 12.1.2 Global Semi-insulator SiC Substrates Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Semi-insulator SiC Substrates by Type (2026-2035)
- 12.2 Global Semi-insulator SiC Substrates Market Forecast by Application (2026-2035)
 - 12.2.1 Global Semi-insulator SiC Substrates Sales (K MT) Forecast by Application
 - 12.2.2 Global Semi-insulator SiC Substrates Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Semi-insulator SiC Substrates Market Size by Type (M USD)

Table 4. Global Semi-insulator SiC Substrates Market Size by Application

Table 5. Semi-insulator SiC Substrates Market Size Comparison by Region (M USD)

Table 6. Global Semi-insulator SiC Substrates Sales (K MT) by Manufacturers
(2020-2025)

Table 7. Global Semi-insulator SiC Substrates Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Semi-insulator SiC Substrates Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Semi-insulator SiC Substrates Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Semi-insulator SiC Substrates as of 2025)

Table 11. Global Market Semi-insulator SiC Substrates Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Semi-insulator SiC Substrates Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Semi-insulator SiC Substrates Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Semi-insulator SiC Substrates Sales by Type (K MT)

Table 27. Global Semi-insulator SiC Substrates Market Size by Type (M USD)

Table 28. Global Semi-insulator SiC Substrates Sales (K MT) by Type (2020-2025)

Table 29. Global Semi-insulator SiC Substrates Sales Market Share by Type (2020-2025)

Table 30. Global Semi-insulator SiC Substrates Market Size (M USD) by Type (2020-2025)

Table 31. Global Semi-insulator SiC Substrates Market Share by Type (2020-2025)

Table 32. Global Semi-insulator SiC Substrates Price (USD/KG) by Type (2020-2025)

Table 33. Global Semi-insulator SiC Substrates Sales (K MT) by Application

Table 34. Global Semi-insulator SiC Substrates Market Size by Application

Table 35. Global Semi-insulator SiC Substrates Sales by Application (2020-2025) & (K MT)

Table 36. Global Semi-insulator SiC Substrates Sales Market Share by Application (2020-2025)

Table 37. Global Semi-insulator SiC Substrates Market Size by Application (2020-2025) & (M USD)

Table 38. Global Semi-insulator SiC Substrates Market Share by Application (2020-2025)

Table 39. Global Semi-insulator SiC Substrates Sales Growth Rate by Application (2020-2025)

Table 40. Global Semi-insulator SiC Substrates Sales by Region (2020-2025) & (K MT)

Table 41. Global Semi-insulator SiC Substrates Sales Market Share by Region (2020-2025)

Table 42. Global Semi-insulator SiC Substrates Market Size by Region (2020-2025) & (M USD)

Table 43. Global Semi-insulator SiC Substrates Market Size by Region (2020-2025)

Table 44. North America Semi-insulator SiC Substrates Sales by Country (2020-2025) & (K MT)

Table 45. North America Semi-insulator SiC Substrates Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Semi-insulator SiC Substrates Sales by Country (2020-2025) & (K MT)

Table 47. Europe Semi-insulator SiC Substrates Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Semi-insulator SiC Substrates Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Semi-insulator SiC Substrates Market Size by Region (2020-2025) & (M USD)

Table 50. South America Semi-insulator SiC Substrates Sales by Country (2020-2025) & (K MT)

Table 51. South America Semi-insulator SiC Substrates Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Semi-insulator SiC Substrates Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa Semi-insulator SiC Substrates Market Size by Region (2020-2025) & (M USD)

Table 54. Global Semi-insulator SiC Substrates Production (K MT) by Region(2020-2025)

Table 55. Global Semi-insulator SiC Substrates Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Semi-insulator SiC Substrates Revenue Market Share by Region (2020-2025)

Table 57. Global Semi-insulator SiC Substrates Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Semi-insulator SiC Substrates Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Semi-insulator SiC Substrates Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Semi-insulator SiC Substrates Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Semi-insulator SiC Substrates Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Wolfspeed Basic Information

Table 63. Wolfspeed Semi-insulator SiC Substrates Product Overview

Table 64. Wolfspeed Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Wolfspeed Business Overview

Table 66. Wolfspeed SWOT Analysis

Table 67. Wolfspeed Recent Developments

Table 68. ROHM (sicrystal) Basic Information

Table 69. ROHM (sicrystal) Semi-insulator SiC Substrates Product Overview

Table 70. ROHM (sicrystal) Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. ROHM (sicrystal) Business Overview

Table 72. ROHM (sicrystal) SWOT Analysis

Table 73. ROHM (sicrystal) Recent Developments

Table 74. Coherent Basic Information

Table 75. Coherent Semi-insulator SiC Substrates Product Overview

Table 76. Coherent Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD),

Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Coherent Business Overview

Table 78. Coherent SWOT Analysis

Table 79. Coherent Recent Developments

Table 80. SK Siltron Basic Information

Table 81. SK Siltron Semi-insulator SiC Substrates Product Overview

Table 82. SK Siltron Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. SK Siltron Business Overview

Table 84. SK Siltron Recent Developments

Table 85. Resonac Basic Information

Table 86. Resonac Semi-insulator SiC Substrates Product Overview

Table 87. Resonac Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Resonac Business Overview

Table 89. Resonac Recent Developments

Table 90. STMicroelectronics Basic Information

Table 91. STMicroelectronics Semi-insulator SiC Substrates Product Overview

Table 92. STMicroelectronics Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. STMicroelectronics Business Overview

Table 94. STMicroelectronics Recent Developments

Table 95. TankeBlue Semiconductor Basic Information

Table 96. TankeBlue Semiconductor Semi-insulator SiC Substrates Product Overview

Table 97. TankeBlue Semiconductor Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. TankeBlue Semiconductor Business Overview

Table 99. TankeBlue Semiconductor Recent Developments

Table 100. SICC Materials Basic Information

Table 101. SICC Materials Semi-insulator SiC Substrates Product Overview

Table 102. SICC Materials Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 103. SICC Materials Business Overview

Table 104. SICC Materials Recent Developments

Table 105. Hebei Synlight Crystal Basic Information

Table 106. Hebei Synlight Crystal Semi-insulator SiC Substrates Product Overview

Table 107. Hebei Synlight Crystal Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 108. Hebei Synlight Crystal Business Overview

- Table 109. Hebei Synlight Crystal Recent Developments
- Table 110. CETC Basic Information
- Table 111. CETC Semi-insulator SiC Substrates Product Overview
- Table 112. CETC Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. CETC Business Overview
- Table 114. CETC Recent Developments
- Table 115. San'an Optoelectronics Basic Information
- Table 116. San'an Optoelectronics Semi-insulator SiC Substrates Product Overview
- Table 117. San'an Optoelectronics Semi-insulator SiC Substrates Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. San'an Optoelectronics Business Overview
- Table 119. San'an Optoelectronics Recent Developments
- Table 120. Global Semi-insulator SiC Substrates Sales Forecast by Region (2026-2035) & (K MT)
- Table 121. Global Semi-insulator SiC Substrates Market Size Forecast by Region (2026-2035) & (M USD)
- Table 122. North America Semi-insulator SiC Substrates Sales Forecast by Country (2026-2035) & (K MT)
- Table 123. North America Semi-insulator SiC Substrates Market Size Forecast by Country (2026-2035) & (M USD)
- Table 124. Europe Semi-insulator SiC Substrates Sales Forecast by Country (2026-2035) & (K MT)
- Table 125. Europe Semi-insulator SiC Substrates Market Size Forecast by Country (2026-2035) & (M USD)
- Table 126. Asia Pacific Semi-insulator SiC Substrates Sales Forecast by Region (2026-2035) & (K MT)
- Table 127. Asia Pacific Semi-insulator SiC Substrates Market Size Forecast by Region (2026-2035) & (M USD)
- Table 128. South America Semi-insulator SiC Substrates Sales Forecast by Country (2026-2035) & (K MT)
- Table 129. South America Semi-insulator SiC Substrates Market Size Forecast by Country (2026-2035) & (M USD)
- Table 130. Middle East and Africa Semi-insulator SiC Substrates Sales Forecast by Country (2026-2035) & (Units)
- Table 131. Middle East and Africa Semi-insulator SiC Substrates Market Size Forecast by Country (2026-2035) & (M USD)
- Table 132. Global Semi-insulator SiC Substrates Sales Forecast by Type (2026-2035) & (K MT)

Table 133. Global Semi-insulator SiC Substrates Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Semi-insulator SiC Substrates Price Forecast by Type (2026-2035) & (USD/KG)

Table 135. Global Semi-insulator SiC Substrates Sales (K MT) Forecast by Application (2026-2035)

Table 136. Global Semi-insulator SiC Substrates Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

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

- Figure 32. Global Semi-insulator SiC Substrates Market Share by Application
- Figure 33. Global Semi-insulator SiC Substrates Sales Market Share by Application (2020-2025)
- Figure 34. Global Semi-insulator SiC Substrates Sales Market Share by Application in 2025
- Figure 35. Global Semi-insulator SiC Substrates Market Share by Application (2020-2025)
- Figure 36. Global Semi-insulator SiC Substrates Market Share by Application in 2025
- Figure 37. Global Semi-insulator SiC Substrates Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Semi-insulator SiC Substrates Sales Market Share by Region (2020-2025)
- Figure 39. Global Semi-insulator SiC Substrates Market Size by Region (2020-2025)
- Figure 40. North America Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Semi-insulator SiC Substrates Sales Market Share by Country in 2024
- Figure 43. North America Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Semi-insulator SiC Substrates Market Size by Country in 2024
- Figure 45. U.S. Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Semi-insulator SiC Substrates Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Semi-insulator SiC Substrates Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Semi-insulator SiC Substrates Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Semi-insulator SiC Substrates Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Semi-insulator SiC Substrates Sales Market Share by Country in 2024

Figure 53. Europe Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Semi-insulator SiC Substrates Market Size by Country in 2024

Figure 55. Germany Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Semi-insulator SiC Substrates Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Semi-insulator SiC Substrates Sales Market Share by Region in 2024

Figure 67. Asia Pacific Semi-insulator SiC Substrates Market Size by Region in 2024

Figure 68. China Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Semi-insulator SiC Substrates Sales and Growth Rate (K MT)

Figure 79. South America Semi-insulator SiC Substrates Sales Market Share by Country in 2024

Figure 80. South America Semi-insulator SiC Substrates Market Size and Growth Rate (M USD)

Figure 81. South America Semi-insulator SiC Substrates Market Size by Country in 2024

Figure 82. Brazil Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Semi-insulator SiC Substrates Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Semi-insulator SiC Substrates Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Semi-insulator SiC Substrates Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Semi-insulator SiC Substrates Market Size by Region in 2024

Figure 92. Saudi Arabia Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Semi-insulator SiC Substrates Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Semi-insulator SiC Substrates Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Semi-insulator SiC Substrates Production Market Share by Region (2020-2025)

Figure 103. North America Semi-insulator SiC Substrates Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Semi-insulator SiC Substrates Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Semi-insulator SiC Substrates Production (K MT) Growth Rate (2020-2025)

Figure 106. China Semi-insulator SiC Substrates Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Semi-insulator SiC Substrates Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Semi-insulator SiC Substrates Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Semi-insulator SiC Substrates Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Semi-insulator SiC Substrates Market Share Forecast by Type (2026-2035)

Figure 111. Global Semi-insulator SiC Substrates Sales Forecast by Application (2026-2035)

Figure 112. Global Semi-insulator SiC Substrates Market Share Forecast by Application (2026-2035)

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