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Global SiC Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SiC Powder market size is expected to reach $ 1490 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).
Silicon Carbide (SiC) powder is a high-performance synthetic ceramic material composed of silicon and carbon, renowned for its exceptional hardness, high thermal conductivity, excellent chemical stability, and wide bandgap properties. It is primarily categorized into two grades: abrasive-grade (or metallurgical-grade) and high-purity electronic-grade. The abrasive-grade, typically black or green, is widely used in traditional applications such as grinding, polishing, and refractory materials. In contrast, the electronic-grade powder, with purity often exceeding 99.99% and precisely controlled particle size distribution, serves as a critical raw material for manufacturing semiconductor substrates, advanced ceramics, and components in high-temperature or high-power environments. Its unique combination of physical and chemical properties?including a thermal conductivity approximately three times higher than silicon, remarkable wear resistance, and stability under extreme conditions?makes it indispensable for next-generation technologies in power electronics, electric vehicles, renewable energy systems, and aerospace.
Supply Chain Dynamics and Key Downstream Users
The global supply chain for SiC powder is characterized by a technology-intensive upstream synthesis process and a diversified downstream application ecosystem. Upstream, raw SiC is produced via the Acheson process, which involves heating silica sand and petroleum coke in electric arc furnaces at temperatures above 2,000?C. This raw material is then refined, purified, and milled by specialized producers to meet specific grade requirements. Leading global suppliers include Fiven, Washington Mills, Fujimi, H?gan?s, Pacific Rundum, Shin-Etsu Chemical, and ESK-SIC GmbH, each with proprietary capabilities in controlling purity, particle morphology, and crystal structure. Downstream, the powder is utilized by several key industries with distinct procurement

patterns. Semiconductor substrate manufacturers (e.g., Wolfspeed, SK Siltron, II-VI Incorporated) are primary consumers of high-purity powder, requiring ultra-low impurity levels and consistent quality under long-term supply agreements; their procurement is highly cost-sensitive, especially for mainstream 6-inch wafers. Advanced packaging and thermal solution providers (e.g., TSMC, NVIDIA partners) engage in project-based co-development, prioritizing thermal performance and reliability over price. Additionally, traditional sectors such as abrasives, refractories, and ceramics procure large volumes of standard-grade powder with an emphasis on bulk pricing and delivery reliability. Given the high technical barriers and value-added processing, gross margins for SiC powder suppliers typically range from 25% to 30%, though margins can be pressured in commoditized abrasive segments or during periods of intense price competition in the semiconductor supply chain.

Market Trends and Outlook for 2025 and Beyond

In 2025, the global SiC powder market reflects a pivotal transition, balancing cyclical pressures in traditional segments with structural growth driven by emerging high-value applications. Total production volumereached to 133,000 metric tons, coupled with an average global market price of $5.90 per kilogram. This price point, however, masks significant divergence across grades: while standard abrasive-grade powder faces moderate cost pressure due to rising raw material and energy expenses, high-purity electronic-grade powder maintains relative pricing resilience due to stringent technical specifications and growing demand from the semiconductor industry. The market is further shaped by two concurrent trends. First, the rapid adoption of SiC in power electronics?particularly for electric vehicle inverters, fast-charging infrastructure, and industrial energy conversion?continues to drive double-digit annual growth in demand for electronic-grade powder. Second, innovation in adjacent fields such as advanced semiconductor packaging (e.g., SiC heat spreaders for AI chips), quantum computing hardware, and next-generation optical devices for augmented reality is creating new application S-curves beyond traditional sectors. Leading producers like Fiven, Washington Mills, and Shin-Etsu Chemical are strategically investing in capacity expansion and purity-enhancement technologies to capture these opportunities, while also exploring vertical integration into wafer manufacturing or specialty ceramic components to capture downstream value.

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

This report is a detailed and comprehensive analysis of the world market for SiC Powder and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC Powder that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global SiC Powder total production and demand, 2021-2032, (Kilotons)
Global SiC Powder total production value, 2021-2032, (USD Million)
Global SiC Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global SiC Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: SiC Powder domestic production, consumption, key domestic manufacturers and share
Global SiC Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global SiC Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global SiC Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
This report profiles key players in the global SiC Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Fiven, Washington Mills, Fujimi, H?gan?s, Nanomakers, Pacific Rundum, Shin-Etsu Chemical, ESK-SIC GmbH, Superior Graphite, Wolfspeed, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiC Powder Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global SiC Powder Market, Segmentation by Type:

General Grade SiC Powder

High Purity SiC Powder

Global SiC Powder Market, Segmentation by Technology:

Acheson Method

SHS Method

CVD Method

Others

Global SiC Powder Market, Segmentation by Particle Size Band:

Coarse Powder 45?150 ?m

Fine Powder 1?45 ?m

Submicron Powder 0.1?1 ?m

Nano Powder

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Contents

1 SUPPLY SUMMARY

1.1 SiC Powder Introduction
1.2 World SiC Powder Supply & Forecast
  1.2.1 World SiC Powder Production Value (2021 & 2025 & 2032)
  1.2.2 World SiC Powder Production (2021-2032)
  1.2.3 World SiC Powder Pricing Trends (2021-2032)
1.3 World SiC Powder Production by Region (Based on Production Site)
  1.3.1 World SiC Powder Production Value by Region (2021-2032)
  1.3.2 World SiC Powder Production by Region (2021-2032)
  1.3.3 World SiC Powder Average Price by Region (2021-2032)
  1.3.4 North America SiC Powder Production (2021-2032)
  1.3.5 Europe SiC Powder Production (2021-2032)
  1.3.6 China SiC Powder Production (2021-2032)
  1.3.7 Japan SiC Powder Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 SiC Powder Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 SiC Powder Major Market Trends

2 DEMAND SUMMARY

2.1 World SiC Powder Demand (2021-2032)
2.2 World SiC Powder Consumption by Region
  2.2.1 World SiC Powder Consumption by Region (2021-2026)
  2.2.2 World SiC Powder Consumption Forecast by Region (2027-2032)
2.3 United States SiC Powder Consumption (2021-2032)
2.4 China SiC Powder Consumption (2021-2032)
2.5 Europe SiC Powder Consumption (2021-2032)
2.6 Japan SiC Powder Consumption (2021-2032)
2.7 South Korea SiC Powder Consumption (2021-2032)
2.8 ASEAN SiC Powder Consumption (2021-2032)
2.9 India SiC Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World SiC Powder Production Value by Manufacturer (2021-2026)

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3.2 World SiC Powder Production by Manufacturer (2021-2026)
3.3 World SiC Powder Average Price by Manufacturer (2021-2026)
3.4 SiC Powder Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global SiC Powder Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for SiC Powder in 2025
3.5.3 Global Concentration Ratios (CR8) for SiC Powder in 2025
3.6 SiC Powder Market: Overall Company Footprint Analysis
3.6.1 SiC Powder Market: Region Footprint
3.6.2 SiC Powder Market: Company Product Type Footprint
3.6.3 SiC Powder Market: Company Product Application Footprint
3.7 Competitive Environment
3.7.1 Historical Structure of the Industry
3.7.2 Barriers of Market Entry
3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: SiC Powder Production Value Comparison
4.1.1 United States VS China: SiC Powder Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: SiC Powder Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: SiC Powder Production Comparison
4.2.1 United States VS China: SiC Powder Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: SiC Powder Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: SiC Powder Consumption Comparison
4.3.1 United States VS China: SiC Powder Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: SiC Powder Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based SiC Powder Manufacturers and Market Share, 2021-2026
4.4.1 United States Based SiC Powder Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers SiC Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers SiC Powder Production (2021-2026)
4.5 China Based SiC Powder Manufacturers and Market Share
4.5.1 China Based SiC Powder Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers SiC Powder Production Value (2021-2026)
4.5.3 China Based Manufacturers SiC Powder Production (2021-2026)
4.6 Rest of World Based SiC Powder Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based SiC Powder Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers SiC Powder Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers SiC Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World SiC Powder Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 General Grade SiC Powder
5.2.2 High Purity SiC Powder
5.3 Market Segment by Type
5.3.1 World SiC Powder Production by Type (2021-2032)
5.3.2 World SiC Powder Production Value by Type (2021-2032)
5.3.3 World SiC Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World SiC Powder Market Size Overview by Technology: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Technology
6.2.1 Acheson Method
6.2.2 SHS Method
6.2.3 CVD Method
6.2.4 Others
6.3 Market Segment by Technology
6.3.1 World SiC Powder Production by Technology (2021-2032)
6.3.2 World SiC Powder Production Value by Technology (2021-2032)
6.3.3 World SiC Powder Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY PARTICLE SIZE BAND

7.1 World SiC Powder Market Size Overview by Particle Size Band: 2021 VS 2025 VS

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2032
7.2 Segment Introduction by Particle Size Band
7.2.1 Coarse Powder 45?150 ?m
7.2.2 Fine Powder 1?45 ?m
7.2.3 Submicron Powder 0.1?1 ?m
7.2.4 Nano Powder

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List Of Tables

LIST OF TABLES

Table 1. World SiC Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World SiC Powder Production Value by Region (2021-2026) & (USD Million)
Table 3. World SiC Powder Production Value by Region (2027-2032) & (USD Million)
Table 4. World SiC Powder Production Value Market Share by Region (2021-2026)
Table 5. World SiC Powder Production Value Market Share by Region (2027-2032)
Table 6. World SiC Powder Production by Region (2021-2026) & (Kilotons)
Table 7. World SiC Powder Production by Region (2027-2032) & (Kilotons)
Table 8. World SiC Powder Production Market Share by Region (2021-2026)
Table 9. World SiC Powder Production Market Share by Region (2027-2032)
Table 10. World SiC Powder Average Price by Region (2021-2026) & (US$/Ton)
Table 11. World SiC Powder Average Price by Region (2027-2032) & (US$/Ton)
Table 12. SiC Powder Major Market Trends
Table 13. World SiC Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
Table 14. World SiC Powder Consumption by Region (2021-2026) & (Kilotons)
Table 15. World SiC Powder Consumption Forecast by Region (2027-2032) & (Kilotons)
Table 16. World SiC Powder Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key SiC Powder Producers in 2025
Table 18. World SiC Powder Production by Manufacturer (2021-2026) & (Kilotons)
Table 19. Production Market Share of Key SiC Powder Producers in 2025
Table 20. World SiC Powder Average Price by Manufacturer (2021-2026) & (US$/Ton)
Table 21. Global SiC Powder Company Evaluation Quadrant
Table 22. World SiC Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and SiC Powder Production Site of Key Manufacturer
Table 24. SiC Powder Market: Company Product Type Footprint
Table 25. SiC Powder Market: Company Product Application Footprint
Table 26. SiC Powder Competitive Factors
Table 27. SiC Powder New Entrant and Capacity Expansion Plans
Table 28. SiC Powder Mergers & Acquisitions Activity
Table 29. United States VS China SiC Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China SiC Powder Production Comparison, (2021 & 2025 &

2032) & (Kilotons)
Table 31. United States VS China SiC Powder Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)
Table 32. United States Based SiC Powder Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers SiC Powder Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers SiC Powder Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers SiC Powder Production (2021-2026) & (Kilotons)
Table 36. United States Based Manufacturers SiC Powder Production Market Share (2021-2026)
Table 37. China Based SiC Powder Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers SiC Powder Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers SiC Powder Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers SiC Powder Production, (2021-2026) & (Kilotons)
Table 41. China Based Manufacturers SiC Powder Production Market Share (2021-2026)
Table 42. Rest of World Based SiC Powder Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers SiC Powder Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers SiC Powder Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers SiC Powder Production, (2021-2026) & (Kilotons)
Table 46. Rest of World Based Manufacturers SiC Powder Production Market Share (2021-2026)
Table 47. World SiC Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World SiC Powder Production by Type (2021-2026) & (Kilotons)
Table 49. World SiC Powder Production by Type (2027-2032) & (Kilotons)
Table 50. World SiC Powder Production Value by Type (2021-2026) & (USD Million)
Table 51. World SiC Powder Production Value by Type (2027-2032) & (USD Million)
Table 52. World SiC Powder Average Price by Type (2021-2026) & (US$/Ton)

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Table 53. World SiC Powder Average Price by Type (2027-2032) & (US$/Ton)
Table 54. World SiC Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 55. World SiC Powder Production by Technology (2021-2026) & (Kilotons)
Table 56. World SiC Powder Production by Technology (2027-2032) & (Kilotons)
Table 57. World SiC Powder Production Value by Technology (2021-2026) & (USD Million)
Table 58. World SiC Powder Production Value by Technology (2027-2032) & (USD Million)
Table 59. World SiC Powder Average Price by Technology (2021-2026) & (US$/Ton)
Table 60. World SiC Powder Average Price by Technology (2027-2032) & (US$/Ton)
Table 61. World SiC Powder Production Value by Particle Size Band, (USD Million), 2021 & 2025 & 2032
Table 62. World SiC Powder Production by Particle Size Band (2021-2026) & (Kilotons)
Table 63. World SiC Powder Production by Particle Size Band (2027-2032) & (Kilotons)
Table 64. World SiC Powder Production Value by Particle Size Band (2021-2026) & (USD Million)
Table 65. World SiC Powder Production Value by Particle Size Band (2027-2032) & (USD Million)
Table 66. World SiC Powder Average Price by Particle Size Band (2021-2026) & (US$/Ton)
Table 67. World SiC Powder Average Price by Particle Size Band (2027-2032) & (US$/Ton)
Table 68. World SiC Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World SiC Powder Production by Application (2021-2026) & (Kilotons)
Table 70. World SiC Powder Production by Application (2027-2032) & (Kilotons)
Table 71. World SiC Powder Production Value by Application (2021-2026) & (USD Million)
Table 72. World SiC Powder Production Value by Application (2027-2032) & (USD Million)
Table 73. World SiC Powder Average Price by Application (2021-2026) & (US$/Ton)
Table 74. World SiC Powder Average Price by Application (2027-2032) & (US$/Ton)
Table 75. Fiven Basic Information, Manufacturing Base and Competitors
Table 76. Fiven Major Business
Table 77. Fiven SiC Powder Product and Services
Table 78. Fiven SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Fiven Recent Developments/Updates

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Table 80. Fiven Competitive Strengths & Weaknesses
Table 81. Washington Mills Basic Information, Manufacturing Base and Competitors
Table 82. Washington Mills Major Business
Table 83. Washington Mills SiC Powder Product and Services
Table 84. Washington Mills SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Washington Mills Recent Developments/Updates
Table 86. Washington Mills Competitive Strengths & Weaknesses
Table 87. Fujimi Basic Information, Manufacturing Base and Competitors
Table 88. Fujimi Major Business
Table 89. Fujimi SiC Powder Product and Services
Table 90. Fujimi SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Fujimi Recent Developments/Updates
Table 92. Fujimi Competitive Strengths & Weaknesses
Table 93. H?gan?s Basic Information, Manufacturing Base and Competitors
Table 94. H?gan?s Major Business
Table 95. H?gan?s SiC Powder Product and Services
Table 96. H?gan?s SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. H?gan?s Recent Developments/Updates
Table 98. H?gan?s Competitive Strengths & Weaknesses
Table 99. Nanomakers Basic Information, Manufacturing Base and Competitors
Table 100. Nanomakers Major Business
Table 101. Nanomakers SiC Powder Product and Services
Table 102. Nanomakers SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Nanomakers Recent Developments/Updates
Table 104. Nanomakers Competitive Strengths & Weaknesses
Table 105. Pacific Rundum Basic Information, Manufacturing Base and Competitors
Table 106. Pacific Rundum Major Business
Table 107. Pacific Rundum SiC Powder Product and Services
Table 108. Pacific Rundum SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Pacific Rundum Recent Developments/Updates
Table 110. Pacific Rundum Competitive Strengths & Weaknesses
Table 111. Shin-Etsu Chemical Basic Information, Manufacturing Base and Competitors
Table 112. Shin-Etsu Chemical Major Business
Table 113. Shin-Etsu Chemical SiC Powder Product and Services

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Table 114. Shin-Etsu Chemical SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Shin-Etsu Chemical Recent Developments/Updates
Table 116. Shin-Etsu Chemical Competitive Strengths & Weaknesses
Table 117. ESK-SIC GmbH Basic Information, Manufacturing Base and Competitors
Table 118. ESK-SIC GmbH Major Business
Table 119. ESK-SIC GmbH SiC Powder Product and Services
Table 120. ESK-SIC GmbH SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. ESK-SIC GmbH Recent Developments/Updates
Table 122. ESK-SIC GmbH Competitive Strengths & Weaknesses
Table 123. Superior Graphite Basic Information, Manufacturing Base and Competitors
Table 124. Superior Graphite Major Business
Table 125. Superior Graphite SiC Powder Product and Services
Table 126. Superior Graphite SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Superior Graphite Recent Developments/Updates
Table 128. Superior Graphite Competitive Strengths & Weaknesses
Table 129. Wolfspeed Basic Information, Manufacturing Base and Competitors
Table 130. Wolfspeed Major Business
Table 131. Wolfspeed SiC Powder Product and Services
Table 132. Wolfspeed SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Wolfspeed Recent Developments/Updates
Table 134. Wolfspeed Competitive Strengths & Weaknesses
Table 135. ROHM Group (SiCrystal) Basic Information, Manufacturing Base and Competitors
Table 136. ROHM Group (SiCrystal) Major Business
Table 137. ROHM Group (SiCrystal) SiC Powder Product and Services
Table 138. ROHM Group (SiCrystal) SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. ROHM Group (SiCrystal) Recent Developments/Updates
Table 140. ROHM Group (SiCrystal) Competitive Strengths & Weaknesses
Table 141. Coherent Basic Information, Manufacturing Base and Competitors
Table 142. Coherent Major Business
Table 143. Coherent SiC Powder Product and Services
Table 144. Coherent SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Coherent Recent Developments/Updates
Table 146. Coherent Competitive Strengths & Weaknesses
Table 147. SICC Basic Information, Manufacturing Base and Competitors
Table 148. SICC Major Business
Table 149. SICC SiC Powder Product and Services
Table 150. SICC SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. SICC Recent Developments/Updates
Table 152. SICC Competitive Strengths & Weaknesses
Table 153. Resonac Basic Information, Manufacturing Base and Competitors
Table 154. Resonac Major Business
Table 155. Resonac SiC Powder Product and Services
Table 156. Resonac SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Resonac Recent Developments/Updates
Table 158. Resonac Competitive Strengths & Weaknesses
Table 159. Shantian Abrasive Basic Information, Manufacturing Base and Competitors
Table 160. Shantian Abrasive Major Business
Table 161. Shantian Abrasive SiC Powder Product and Services
Table 162. Shantian Abrasive SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Shantian Abrasive Recent Developments/Updates
Table 164. Shantian Abrasive Competitive Strengths & Weaknesses
Table 165. Xinfang Group Basic Information, Manufacturing Base and Competitors
Table 166. Xinfang Group Major Business
Table 167. Xinfang Group SiC Powder Product and Services
Table 168. Xinfang Group SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Xinfang Group Recent Developments/Updates
Table 170. Xinfang Group Competitive Strengths & Weaknesses
Table 171. Weifang Liuhe New Material Basic Information, Manufacturing Base and Competitors
Table 172. Weifang Liuhe New Material Major Business
Table 173. Weifang Liuhe New Material SiC Powder Product and Services
Table 174. Weifang Liuhe New Material SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Weifang Liuhe New Material Recent Developments/Updates
Table 176. Weifang Liuhe New Material Competitive Strengths & Weaknesses

Table 177. Huaian Litai Silicon Carbide Micro Powder Basic Information, Manufacturing Base and Competitors
Table 178. Huaian Litai Silicon Carbide Micro Powder Major Business
Table 179. Huaian Litai Silicon Carbide Micro Powder SiC Powder Product and Services
Table 180. Huaian Litai Silicon Carbide Micro Powder SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Huaian Litai Silicon Carbide Micro Powder Recent Developments/Updates
Table 182. Huaian Litai Silicon Carbide Micro Powder Competitive Strengths & Weaknesses
Table 183. Weifang Kaihua Silicon Carbide Basic Information, Manufacturing Base and Competitors
Table 184. Weifang Kaihua Silicon Carbide Major Business
Table 185. Weifang Kaihua Silicon Carbide SiC Powder Product and Services
Table 186. Weifang Kaihua Silicon Carbide SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Weifang Kaihua Silicon Carbide Recent Developments/Updates
Table 188. Weifang Kaihua Silicon Carbide Competitive Strengths & Weaknesses
Table 189. Shandong Jinmeng New Material Basic Information, Manufacturing Base and Competitors
Table 190. Shandong Jinmeng New Material Major Business
Table 191. Shandong Jinmeng New Material SiC Powder Product and Services
Table 192. Shandong Jinmeng New Material SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Shandong Jinmeng New Material Recent Developments/Updates
Table 194. Shandong Jinmeng New Material Competitive Strengths & Weaknesses
Table 195. Fu Jing Bao Communication Technology Basic Information, Manufacturing Base and Competitors
Table 196. Fu Jing Bao Communication Technology Major Business
Table 197. Fu Jing Bao Communication Technology SiC Powder Product and Services
Table 198. Fu Jing Bao Communication Technology SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 199. Fu Jing Bao Communication Technology Recent Developments/Updates
Table 200. Fu Jing Bao Communication Technology Competitive Strengths & Weaknesses

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Table 201. Shandong Qingzhou Micropowder Basic Information, Manufacturing Base and Competitors
Table 202. Shandong Qingzhou Micropowder Major Business
Table 203. Shandong Qingzhou Micropowder SiC Powder Product and Services
Table 204. Shandong Qingzhou Micropowder SiC Powder Production (Kilotons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205. Shandong Qingzhou Micropowder Recent Developments/Updates
Table 206. Shandong Qingzhou Micropowder Competitive Strengths & Weaknesses
Table 207. Global Key Players of SiC Powder Upstream (Raw Materials)
Table 208. Global SiC Powder Typical Customers
Table 209. SiC Powder Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. SiC Powder Picture
Figure 2. World SiC Powder Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World SiC Powder Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World SiC Powder Production (2021-2032) & (Kilotons)
Figure 5. World SiC Powder Average Price (2021-2032) & (US$/Ton)
Figure 6. World SiC Powder Production Value Market Share by Region (2021-2032)
Figure 7. World SiC Powder Production Market Share by Region (2021-2032)
Figure 8. North America SiC Powder Production (2021-2032) & (Kilotons)
Figure 9. Europe SiC Powder Production (2021-2032) & (Kilotons)
Figure 10. China SiC Powder Production (2021-2032) & (Kilotons)
Figure 11. Japan SiC Powder Production (2021-2032) & (Kilotons)
Figure 12. SiC Powder Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 15. World SiC Powder Consumption Market Share by Region (2021-2032)
Figure 16. United States SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 17. China SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 18. Europe SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 19. Japan SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 20. South Korea SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 21. ASEAN SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 22. India SiC Powder Consumption (2021-2032) & (Kilotons)
Figure 23. Producer Shipments of SiC Powder by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for SiC Powder Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for SiC Powder Markets in 2025
Figure 26. United States VS China: SiC Powder Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: SiC Powder Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: SiC Powder Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers SiC Powder Production Market Share 2025

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Figure 30. China Based Manufacturers SiC Powder Production Market Share 2025
Figure 31. Rest of World Based Manufacturers SiC Powder Production Market Share 2025
Figure 32. World SiC Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World SiC Powder Production Value Market Share by Type in 2025
Figure 34. General Grade SiC Powder
Figure 35. High Purity SiC Powder
Figure 36. World SiC Powder Production Market Share by Type (2021-2032)
Figure 37. World SiC Powder Production Value Market Share by Type (2021-2032)
Figure 38. World SiC Powder Average Price by Type (2021-2032) & (US$/Ton)
Figure 39. World SiC Powder Production Value by Technology, (USD Million), 2021 & 2025 & 2032
Figure 40. World SiC Powder Production Value Market Share by Technology in 2025
Figure 41. Acheson Method
Figure 42. SHS Method
Figure 43. CVD Method
Figure 44. Others
Figure 45. World SiC Powder Production Market Share by Technology (2021-2032)
Figure 46. World SiC Powder Production Value Market Share by Technology (2021-2032)
Figure 47. World SiC Powder Average Price by Technology (2021-2032) & (US$/Ton)
Figure 48. World SiC Powder Production Value by Particle Size Band, (USD Million), 2021 & 2025 & 2032
Figure 49. World SiC Powder Production Value Market Share by Particle Size Band in 2025
Figure 50. Coarse Powder 45?150 ?m
Figure 51. Fine Powder 1?45 ?m
Figure 52. Submicron Powder 0.1?1 ?m
Figure 53. Nano Powder

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