

Global High-purity Silicon Carbide Powder for Wafer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-purity Silicon Carbide Powder for Wafer market size is expected to reach \$ 377 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

High-purity silicon carbide (SiC) powder for wafer manufacturing is a purified, size-classified SiC feedstock engineered for physical vapor transport (PVT) growth of single-crystal SiC boules. Compared with general abrasive-grade SiC, it specifies ultra-low metallic and oxygen impurities, controlled free-Si/free-C, and an optimized particle-size distribution and packing behavior that stabilize sublimation/recrystallization and increase source utilization in the PVT hot zone.

The key raw materials include carbon powder (graphite), silicon powder, high-purity quartz / silica, chlorosilane precursor, hydrogen. Downstream applications are mainly used in the production of wafers of different sizes, such as 4-inch, 6-inch, and 8-inch.

In 2025, global sales of high-purity silicon carbide powder for wafer reached approximately 776 tons, with an average global market price of around US\$ 170/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 40%.

Silicon carbide (SiC) is a compound semiconductor composed of silicon and carbide. SiC provides a number of advantages over silicon, including 10x the breakdown electric field strength, 3x the band gap, and enabling a wider range of p- and n-type control required for device construction. The result is breakthrough performance, not possible with silicon, making it the most viable successor for next-generation power devices.

As demand for electric vehicles (EVs) continues to grow, manufacturers are comparing two semiconductor technologies, silicon carbide and silicon, for power electronics applications. Silicon carbide (SiC) provides the high temperature resistance, low power consumption, rigidity, and support for smaller, thinner designs that EV power electronics need. Examples of SiC's current applications include on-board DC/DC converters, off-board DC fast chargers, on-board battery chargers, EV powertrains, and automotive lighting for LEDs.

SiC technology could also drive future EV innovations as battery and motor manufacturers reach the physical limits of existing technologies and need to develop more efficient drivetrains.

Fast demand from downstream industries stimulates the SiC related industries, including the upstream and downstream industries. High purity silicon carbide powder for wafer industry will benefit from this and keeps fast growth in the coming years.

This report studies the global High-purity Silicon Carbide Powder for Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-purity Silicon Carbide Powder for Wafer 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 High-purity Silicon Carbide Powder for Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-purity Silicon Carbide Powder for Wafer total production and demand, 2021-2032, (kg)

Global High-purity Silicon Carbide Powder for Wafer total production value, 2021-2032, (USD Million)

Global High-purity Silicon Carbide Powder for Wafer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global High-purity Silicon Carbide Powder for Wafer consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: High-purity Silicon Carbide Powder for Wafer domestic production, consumption, key domestic manufacturers and share

Global High-purity Silicon Carbide Powder for Wafer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global High-purity Silicon Carbide Powder for Wafer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global High-purity Silicon Carbide Powder for Wafer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global High-purity Silicon Carbide Powder for Wafer 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 Wolfspeed, Coherent, SiCrystal, SK Siltron, Resonac, STMicroelectronics, Kymera International, Washington Mills, Shanxi Semisic Crystal, TankeBlue, 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 High-purity Silicon Carbide Powder for Wafer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/Kg) 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 High-purity Silicon Carbide Powder for Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-purity Silicon Carbide Powder for Wafer Market, Segmentation by Type:

SHS Method

Acheson Method

CVD Method

Global High-purity Silicon Carbide Powder for Wafer Market, Segmentation by Purity:

5N

6N

Other

Global High-purity Silicon Carbide Powder for Wafer Market, Segmentation by Electrical Behavior:

Conductive (n-Type)

Semi-Insulating Type

Global High-purity Silicon Carbide Powder for Wafer Market, Segmentation by Application:

4 Inch Wafer

6 Inch Wafer

8 Inch Wafer

Companies Profiled:

Wolfspeed

Coherent

SiCrystal

SK Siltron

Resonac

STMicroelectronics

Kymera International

Washington Mills

Shanxi Semisic Crystal

TankeBlue

SICC

Hebei Synlight Semiconductor

Ningbo Alpha Semiconductor

NANOCMS

Zadient

Key Questions Answered:

1. How big is the global High-purity Silicon Carbide Powder for Wafer market?
2. What is the demand of the global High-purity Silicon Carbide Powder for Wafer

market?

3. What is the year over year growth of the global High-purity Silicon Carbide Powder for Wafer market?

4. What is the production and production value of the global High-purity Silicon Carbide Powder for Wafer market?

5. Who are the key producers in the global High-purity Silicon Carbide Powder for Wafer market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World High-purity Silicon Carbide Powder for Wafer Demand (2021-2032)
- 2.2 World High-purity Silicon Carbide Powder for Wafer Consumption by Region
 - 2.2.1 World High-purity Silicon Carbide Powder for Wafer Consumption by Region (2021-2026)
 - 2.2.2 World High-purity Silicon Carbide Powder for Wafer Consumption Forecast by Region (2027-2032)
- 2.3 United States High-purity Silicon Carbide Powder for Wafer Consumption

(2021-2032)

2.4 China High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032)

2.5 Europe High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032)

2.6 Japan High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032)

2.7 South Korea High-purity Silicon Carbide Powder for Wafer Consumption
(2021-2032)

2.8 ASEAN High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032)

2.9 India High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High-purity Silicon Carbide Powder for Wafer Production Value by
Manufacturer (2021-2026)

3.2 World High-purity Silicon Carbide Powder for Wafer Production by Manufacturer
(2021-2026)

3.3 World High-purity Silicon Carbide Powder for Wafer Average Price by Manufacturer
(2021-2026)

3.4 High-purity Silicon Carbide Powder for Wafer Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High-purity Silicon Carbide Powder for Wafer Industry Rank of Major
Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High-purity Silicon Carbide Powder for
Wafer in 2025

3.5.3 Global Concentration Ratios (CR8) for High-purity Silicon Carbide Powder for
Wafer in 2025

3.6 High-purity Silicon Carbide Powder for Wafer Market: Overall Company Footprint
Analysis

3.6.1 High-purity Silicon Carbide Powder for Wafer Market: Region Footprint

3.6.2 High-purity Silicon Carbide Powder for Wafer Market: Company Product Type
Footprint

3.6.3 High-purity Silicon Carbide Powder for Wafer 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: High-purity Silicon Carbide Powder for Wafer Production Value Comparison

4.1.1 United States VS China: High-purity Silicon Carbide Powder for Wafer Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High-purity Silicon Carbide Powder for Wafer Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High-purity Silicon Carbide Powder for Wafer Production Comparison

4.2.1 United States VS China: High-purity Silicon Carbide Powder for Wafer Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High-purity Silicon Carbide Powder for Wafer Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High-purity Silicon Carbide Powder for Wafer Consumption Comparison

4.3.1 United States VS China: High-purity Silicon Carbide Powder for Wafer Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High-purity Silicon Carbide Powder for Wafer Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High-purity Silicon Carbide Powder for Wafer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High-purity Silicon Carbide Powder for Wafer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production (2021-2026)

4.5 China Based High-purity Silicon Carbide Powder for Wafer Manufacturers and Market Share

4.5.1 China Based High-purity Silicon Carbide Powder for Wafer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value (2021-2026)

4.5.3 China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production (2021-2026)

4.6 Rest of World Based High-purity Silicon Carbide Powder for Wafer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-purity Silicon Carbide Powder for Wafer Manufacturers,

Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-purity Silicon Carbide Powder for Wafer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 SHS Method

5.2.2 Acheson Method

5.2.3 CVD Method

5.3 Market Segment by Type

5.3.1 World High-purity Silicon Carbide Powder for Wafer Production by Type (2021-2032)

5.3.2 World High-purity Silicon Carbide Powder for Wafer Production Value by Type (2021-2032)

5.3.3 World High-purity Silicon Carbide Powder for Wafer Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PURITY

6.1 World High-purity Silicon Carbide Powder for Wafer Market Size Overview by Purity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Purity

6.2.1 5N

6.2.2 6N

6.2.3 Other

6.3 Market Segment by Purity

6.3.1 World High-purity Silicon Carbide Powder for Wafer Production by Purity (2021-2032)

6.3.2 World High-purity Silicon Carbide Powder for Wafer Production Value by Purity (2021-2032)

6.3.3 World High-purity Silicon Carbide Powder for Wafer Average Price by Purity (2021-2032)

7 MARKET ANALYSIS BY ELECTRICAL BEHAVIOR

7.1 World High-purity Silicon Carbide Powder for Wafer Market Size Overview by Electrical Behavior: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Electrical Behavior

7.2.1 Conductive (n-Type)

7.2.2 Semi-Insulating Type

7.3 Market Segment by Electrical Behavior

7.3.1 World High-purity Silicon Carbide Powder for Wafer Production by Electrical Behavior (2021-2032)

7.3.2 World High-purity Silicon Carbide Powder for Wafer Production Value by Electrical Behavior (2021-2032)

7.3.3 World High-purity Silicon Carbide Powder for Wafer Average Price by Electrical Behavior (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High-purity Silicon Carbide Powder for Wafer Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 4 Inch Wafer

8.2.2 6 Inch Wafer

8.2.3 8 Inch Wafer

8.3 Market Segment by Application

8.3.1 World High-purity Silicon Carbide Powder for Wafer Production by Application (2021-2032)

8.3.2 World High-purity Silicon Carbide Powder for Wafer Production Value by Application (2021-2032)

8.3.3 World High-purity Silicon Carbide Powder for Wafer Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Wolfspeed

9.1.1 Wolfspeed Details

9.1.2 Wolfspeed Major Business

9.1.3 Wolfspeed High-purity Silicon Carbide Powder for Wafer Product and Services

9.1.4 Wolfspeed High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Wolfspeed Recent Developments/Updates

9.1.6 Wolfspeed Competitive Strengths & Weaknesses

9.2 Coherent

9.2.1 Coherent Details

9.2.2 Coherent Major Business

9.2.3 Coherent High-purity Silicon Carbide Powder for Wafer Product and Services

9.2.4 Coherent High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Coherent Recent Developments/Updates

9.2.6 Coherent Competitive Strengths & Weaknesses

9.3 SiCrystal

9.3.1 SiCrystal Details

9.3.2 SiCrystal Major Business

9.3.3 SiCrystal High-purity Silicon Carbide Powder for Wafer Product and Services

9.3.4 SiCrystal High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 SiCrystal Recent Developments/Updates

9.3.6 SiCrystal Competitive Strengths & Weaknesses

9.4 SK Siltron

9.4.1 SK Siltron Details

9.4.2 SK Siltron Major Business

9.4.3 SK Siltron High-purity Silicon Carbide Powder for Wafer Product and Services

9.4.4 SK Siltron High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 SK Siltron Recent Developments/Updates

9.4.6 SK Siltron Competitive Strengths & Weaknesses

9.5 Resonac

9.5.1 Resonac Details

9.5.2 Resonac Major Business

9.5.3 Resonac High-purity Silicon Carbide Powder for Wafer Product and Services

9.5.4 Resonac High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Resonac Recent Developments/Updates

9.5.6 Resonac Competitive Strengths & Weaknesses

9.6 STMicroelectronics

9.6.1 STMicroelectronics Details

9.6.2 STMicroelectronics Major Business

9.6.3 STMicroelectronics High-purity Silicon Carbide Powder for Wafer Product and Services

9.6.4 STMicroelectronics High-purity Silicon Carbide Powder for Wafer Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 STMicroelectronics Recent Developments/Updates

9.6.6 STMicroelectronics Competitive Strengths & Weaknesses

9.7 Kymera International

9.7.1 Kymera International Details

9.7.2 Kymera International Major Business

9.7.3 Kymera International High-purity Silicon Carbide Powder for Wafer Product and Services

9.7.4 Kymera International High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Kymera International Recent Developments/Updates

9.7.6 Kymera International Competitive Strengths & Weaknesses

9.8 Washington Mills

9.8.1 Washington Mills Details

9.8.2 Washington Mills Major Business

9.8.3 Washington Mills High-purity Silicon Carbide Powder for Wafer Product and Services

9.8.4 Washington Mills High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Washington Mills Recent Developments/Updates

9.8.6 Washington Mills Competitive Strengths & Weaknesses

9.9 Shanxi Semisic Crystal

9.9.1 Shanxi Semisic Crystal Details

9.9.2 Shanxi Semisic Crystal Major Business

9.9.3 Shanxi Semisic Crystal High-purity Silicon Carbide Powder for Wafer Product and Services

9.9.4 Shanxi Semisic Crystal High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Shanxi Semisic Crystal Recent Developments/Updates

9.9.6 Shanxi Semisic Crystal Competitive Strengths & Weaknesses

9.10 TankeBlue

9.10.1 TankeBlue Details

9.10.2 TankeBlue Major Business

9.10.3 TankeBlue High-purity Silicon Carbide Powder for Wafer Product and Services

9.10.4 TankeBlue High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 TankeBlue Recent Developments/Updates

9.10.6 TankeBlue Competitive Strengths & Weaknesses

9.11 SICC

- 9.11.1 SICC Details
- 9.11.2 SICC Major Business
- 9.11.3 SICC High-purity Silicon Carbide Powder for Wafer Product and Services
- 9.11.4 SICC High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 SICC Recent Developments/Updates
- 9.11.6 SICC Competitive Strengths & Weaknesses
- 9.12 Hebei Synlight Semiconductor
- 9.12.1 Hebei Synlight Semiconductor Details
- 9.12.2 Hebei Synlight Semiconductor Major Business
- 9.12.3 Hebei Synlight Semiconductor High-purity Silicon Carbide Powder for Wafer Product and Services
- 9.12.4 Hebei Synlight Semiconductor High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Hebei Synlight Semiconductor Recent Developments/Updates
- 9.12.6 Hebei Synlight Semiconductor Competitive Strengths & Weaknesses
- 9.13 Ningbo Alpha Semiconductor
- 9.13.1 Ningbo Alpha Semiconductor Details
- 9.13.2 Ningbo Alpha Semiconductor Major Business
- 9.13.3 Ningbo Alpha Semiconductor High-purity Silicon Carbide Powder for Wafer Product and Services
- 9.13.4 Ningbo Alpha Semiconductor High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Ningbo Alpha Semiconductor Recent Developments/Updates
- 9.13.6 Ningbo Alpha Semiconductor Competitive Strengths & Weaknesses
- 9.14 NANOCMS
- 9.14.1 NANOCMS Details
- 9.14.2 NANOCMS Major Business
- 9.14.3 NANOCMS High-purity Silicon Carbide Powder for Wafer Product and Services
- 9.14.4 NANOCMS High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 NANOCMS Recent Developments/Updates
- 9.14.6 NANOCMS Competitive Strengths & Weaknesses
- 9.15 Zadient
- 9.15.1 Zadient Details
- 9.15.2 Zadient Major Business
- 9.15.3 Zadient High-purity Silicon Carbide Powder for Wafer Product and Services
- 9.15.4 Zadient High-purity Silicon Carbide Powder for Wafer Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Zadiant Recent Developments/Updates

9.15.6 Zadiant Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 High-purity Silicon Carbide Powder for Wafer Industry Chain

10.2 High-purity Silicon Carbide Powder for Wafer Upstream Analysis

10.2.1 High-purity Silicon Carbide Powder for Wafer Core Raw Materials

10.2.2 Main Manufacturers of High-purity Silicon Carbide Powder for Wafer Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High-purity Silicon Carbide Powder for Wafer Production Mode

10.6 High-purity Silicon Carbide Powder for Wafer Procurement Model

10.7 High-purity Silicon Carbide Powder for Wafer Industry Sales Model and Sales Channels

10.7.1 High-purity Silicon Carbide Powder for Wafer Sales Model

10.7.2 High-purity Silicon Carbide Powder for Wafer Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-purity Silicon Carbide Powder for Wafer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-purity Silicon Carbide Powder for Wafer Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-purity Silicon Carbide Powder for Wafer Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Region (2021-2026)

Table 5. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Region (2027-2032)

Table 6. World High-purity Silicon Carbide Powder for Wafer Production by Region (2021-2026) & (kg)

Table 7. World High-purity Silicon Carbide Powder for Wafer Production by Region (2027-2032) & (kg)

Table 8. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Region (2021-2026)

Table 9. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Region (2027-2032)

Table 10. World High-purity Silicon Carbide Powder for Wafer Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World High-purity Silicon Carbide Powder for Wafer Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. High-purity Silicon Carbide Powder for Wafer Major Market Trends

Table 13. World High-purity Silicon Carbide Powder for Wafer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World High-purity Silicon Carbide Powder for Wafer Consumption by Region (2021-2026) & (kg)

Table 15. World High-purity Silicon Carbide Powder for Wafer Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World High-purity Silicon Carbide Powder for Wafer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-purity Silicon Carbide Powder for Wafer Producers in 2025

Table 18. World High-purity Silicon Carbide Powder for Wafer Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key High-purity Silicon Carbide Powder for Wafer Producers in 2025

Table 20. World High-purity Silicon Carbide Powder for Wafer Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global High-purity Silicon Carbide Powder for Wafer Company Evaluation Quadrant

Table 22. World High-purity Silicon Carbide Powder for Wafer Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-purity Silicon Carbide Powder for Wafer Production Site of Key Manufacturer

Table 24. High-purity Silicon Carbide Powder for Wafer Market: Company Product Type Footprint

Table 25. High-purity Silicon Carbide Powder for Wafer Market: Company Product Application Footprint

Table 26. High-purity Silicon Carbide Powder for Wafer Competitive Factors

Table 27. High-purity Silicon Carbide Powder for Wafer New Entrant and Capacity Expansion Plans

Table 28. High-purity Silicon Carbide Powder for Wafer Mergers & Acquisitions Activity

Table 29. United States VS China High-purity Silicon Carbide Powder for Wafer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-purity Silicon Carbide Powder for Wafer Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China High-purity Silicon Carbide Powder for Wafer Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based High-purity Silicon Carbide Powder for Wafer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share (2021-2026)

Table 37. China Based High-purity Silicon Carbide Powder for Wafer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-purity Silicon Carbide Powder for Wafer

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share (2021-2026)

Table 42. Rest of World Based High-purity Silicon Carbide Powder for Wafer Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share (2021-2026)

Table 47. World High-purity Silicon Carbide Powder for Wafer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-purity Silicon Carbide Powder for Wafer Production by Type (2021-2026) & (kg)

Table 49. World High-purity Silicon Carbide Powder for Wafer Production by Type (2027-2032) & (kg)

Table 50. World High-purity Silicon Carbide Powder for Wafer Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-purity Silicon Carbide Powder for Wafer Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-purity Silicon Carbide Powder for Wafer Average Price by Type (2021-2026) & (US\$/Kg)

Table 53. World High-purity Silicon Carbide Powder for Wafer Average Price by Type (2027-2032) & (US\$/Kg)

Table 54. World High-purity Silicon Carbide Powder for Wafer Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 55. World High-purity Silicon Carbide Powder for Wafer Production by Purity (2021-2026) & (kg)

Table 56. World High-purity Silicon Carbide Powder for Wafer Production by Purity (2027-2032) & (kg)

Table 57. World High-purity Silicon Carbide Powder for Wafer Production Value by Purity (2021-2026) & (USD Million)

Table 58. World High-purity Silicon Carbide Powder for Wafer Production Value by Purity (2027-2032) & (USD Million)

Table 59. World High-purity Silicon Carbide Powder for Wafer Average Price by Purity (2021-2026) & (US\$/Kg)

Table 60. World High-purity Silicon Carbide Powder for Wafer Average Price by Purity (2027-2032) & (US\$/Kg)

Table 61. World High-purity Silicon Carbide Powder for Wafer Production Value by Electrical Behavior, (USD Million), 2021 & 2025 & 2032

Table 62. World High-purity Silicon Carbide Powder for Wafer Production by Electrical Behavior (2021-2026) & (kg)

Table 63. World High-purity Silicon Carbide Powder for Wafer Production by Electrical Behavior (2027-2032) & (kg)

Table 64. World High-purity Silicon Carbide Powder for Wafer Production Value by Electrical Behavior (2021-2026) & (USD Million)

Table 65. World High-purity Silicon Carbide Powder for Wafer Production Value by Electrical Behavior (2027-2032) & (USD Million)

Table 66. World High-purity Silicon Carbide Powder for Wafer Average Price by Electrical Behavior (2021-2026) & (US\$/Kg)

Table 67. World High-purity Silicon Carbide Powder for Wafer Average Price by Electrical Behavior (2027-2032) & (US\$/Kg)

Table 68. World High-purity Silicon Carbide Powder for Wafer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High-purity Silicon Carbide Powder for Wafer Production by Application (2021-2026) & (kg)

Table 70. World High-purity Silicon Carbide Powder for Wafer Production by Application (2027-2032) & (kg)

Table 71. World High-purity Silicon Carbide Powder for Wafer Production Value by Application (2021-2026) & (USD Million)

Table 72. World High-purity Silicon Carbide Powder for Wafer Production Value by Application (2027-2032) & (USD Million)

Table 73. World High-purity Silicon Carbide Powder for Wafer Average Price by Application (2021-2026) & (US\$/Kg)

Table 74. World High-purity Silicon Carbide Powder for Wafer Average Price by Application (2027-2032) & (US\$/Kg)

Table 75. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 76. Wolfspeed Major Business

Table 77. Wolfspeed High-purity Silicon Carbide Powder for Wafer Product and Services

Table 78. Wolfspeed High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Wolfspeed Recent Developments/Updates
Table 80. Wolfspeed Competitive Strengths & Weaknesses
Table 81. Coherent Basic Information, Manufacturing Base and Competitors
Table 82. Coherent Major Business
Table 83. Coherent High-purity Silicon Carbide Powder for Wafer Product and Services
Table 84. Coherent High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Coherent Recent Developments/Updates
Table 86. Coherent Competitive Strengths & Weaknesses
Table 87. SiCrystal Basic Information, Manufacturing Base and Competitors
Table 88. SiCrystal Major Business
Table 89. SiCrystal High-purity Silicon Carbide Powder for Wafer Product and Services
Table 90. SiCrystal High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. SiCrystal Recent Developments/Updates
Table 92. SiCrystal Competitive Strengths & Weaknesses
Table 93. SK Siltron Basic Information, Manufacturing Base and Competitors
Table 94. SK Siltron Major Business
Table 95. SK Siltron High-purity Silicon Carbide Powder for Wafer Product and Services
Table 96. SK Siltron High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. SK Siltron Recent Developments/Updates
Table 98. SK Siltron Competitive Strengths & Weaknesses
Table 99. Resonac Basic Information, Manufacturing Base and Competitors
Table 100. Resonac Major Business
Table 101. Resonac High-purity Silicon Carbide Powder for Wafer Product and Services
Table 102. Resonac High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Resonac Recent Developments/Updates
Table 104. Resonac Competitive Strengths & Weaknesses
Table 105. STMicroelectronics Basic Information, Manufacturing Base and Competitors
Table 106. STMicroelectronics Major Business
Table 107. STMicroelectronics High-purity Silicon Carbide Powder for Wafer Product and Services
Table 108. STMicroelectronics High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. STMicroelectronics Recent Developments/Updates

Table 110. STMicroelectronics Competitive Strengths & Weaknesses

Table 111. Kymera International Basic Information, Manufacturing Base and Competitors

Table 112. Kymera International Major Business

Table 113. Kymera International High-purity Silicon Carbide Powder for Wafer Product and Services

Table 114. Kymera International High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Kymera International Recent Developments/Updates

Table 116. Kymera International Competitive Strengths & Weaknesses

Table 117. Washington Mills Basic Information, Manufacturing Base and Competitors

Table 118. Washington Mills Major Business

Table 119. Washington Mills High-purity Silicon Carbide Powder for Wafer Product and Services

Table 120. Washington Mills High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Washington Mills Recent Developments/Updates

Table 122. Washington Mills Competitive Strengths & Weaknesses

Table 123. Shanxi Semisic Crystal Basic Information, Manufacturing Base and Competitors

Table 124. Shanxi Semisic Crystal Major Business

Table 125. Shanxi Semisic Crystal High-purity Silicon Carbide Powder for Wafer Product and Services

Table 126. Shanxi Semisic Crystal High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shanxi Semisic Crystal Recent Developments/Updates

Table 128. Shanxi Semisic Crystal Competitive Strengths & Weaknesses

Table 129. TankeBlue Basic Information, Manufacturing Base and Competitors

Table 130. TankeBlue Major Business

Table 131. TankeBlue High-purity Silicon Carbide Powder for Wafer Product and Services

Table 132. TankeBlue High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TankeBlue Recent Developments/Updates

Table 134. TankeBlue Competitive Strengths & Weaknesses

Table 135. SICC Basic Information, Manufacturing Base and Competitors
Table 136. SICC Major Business
Table 137. SICC High-purity Silicon Carbide Powder for Wafer Product and Services
Table 138. SICC High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. SICC Recent Developments/Updates
Table 140. SICC Competitive Strengths & Weaknesses
Table 141. Hebei Synlight Semiconductor Basic Information, Manufacturing Base and Competitors
Table 142. Hebei Synlight Semiconductor Major Business
Table 143. Hebei Synlight Semiconductor High-purity Silicon Carbide Powder for Wafer Product and Services
Table 144. Hebei Synlight Semiconductor High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Hebei Synlight Semiconductor Recent Developments/Updates
Table 146. Hebei Synlight Semiconductor Competitive Strengths & Weaknesses
Table 147. Ningbo Alpha Semiconductor Basic Information, Manufacturing Base and Competitors
Table 148. Ningbo Alpha Semiconductor Major Business
Table 149. Ningbo Alpha Semiconductor High-purity Silicon Carbide Powder for Wafer Product and Services
Table 150. Ningbo Alpha Semiconductor High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Ningbo Alpha Semiconductor Recent Developments/Updates
Table 152. Ningbo Alpha Semiconductor Competitive Strengths & Weaknesses
Table 153. NANOCMS Basic Information, Manufacturing Base and Competitors
Table 154. NANOCMS Major Business
Table 155. NANOCMS High-purity Silicon Carbide Powder for Wafer Product and Services
Table 156. NANOCMS High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. NANOCMS Recent Developments/Updates
Table 158. NANOCMS Competitive Strengths & Weaknesses
Table 159. Zadient Basic Information, Manufacturing Base and Competitors
Table 160. Zadient Major Business
Table 161. Zadient High-purity Silicon Carbide Powder for Wafer Product and Services

Table 162. Zadient High-purity Silicon Carbide Powder for Wafer Production (kg), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Zadient Recent Developments/Updates

Table 164. Zadient Competitive Strengths & Weaknesses

Table 165. Global Key Players of High-purity Silicon Carbide Powder for Wafer Upstream (Raw Materials)

Table 166. Global High-purity Silicon Carbide Powder for Wafer Typical Customers

Table 167. High-purity Silicon Carbide Powder for Wafer Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-purity Silicon Carbide Powder for Wafer Picture

Figure 2. World High-purity Silicon Carbide Powder for Wafer Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-purity Silicon Carbide Powder for Wafer Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 5. World High-purity Silicon Carbide Powder for Wafer Average Price (2021-2032) & (US\$/Kg)

Figure 6. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Region (2021-2032)

Figure 7. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Region (2021-2032)

Figure 8. North America High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 9. Europe High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 10. China High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 11. Japan High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 12. South Korea High-purity Silicon Carbide Powder for Wafer Production (2021-2032) & (kg)

Figure 13. High-purity Silicon Carbide Powder for Wafer Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)

Figure 16. World High-purity Silicon Carbide Powder for Wafer Consumption Market Share by Region (2021-2032)

Figure 17. United States High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)

Figure 18. China High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)

Figure 19. Europe High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)

- Figure 20. Japan High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)
- Figure 21. South Korea High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)
- Figure 22. ASEAN High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)
- Figure 23. India High-purity Silicon Carbide Powder for Wafer Consumption (2021-2032) & (kg)
- Figure 24. Producer Shipments of High-purity Silicon Carbide Powder for Wafer by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for High-purity Silicon Carbide Powder for Wafer Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for High-purity Silicon Carbide Powder for Wafer Markets in 2025
- Figure 27. United States VS China: High-purity Silicon Carbide Powder for Wafer Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: High-purity Silicon Carbide Powder for Wafer Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: High-purity Silicon Carbide Powder for Wafer Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share 2025
- Figure 31. China Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share 2025
- Figure 32. Rest of World Based Manufacturers High-purity Silicon Carbide Powder for Wafer Production Market Share 2025
- Figure 33. World High-purity Silicon Carbide Powder for Wafer Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 34. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Type in 2025
- Figure 35. SHS Method
- Figure 36. Acheson Method
- Figure 37. CVD Method
- Figure 38. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Type (2021-2032)
- Figure 39. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Type (2021-2032)
- Figure 40. World High-purity Silicon Carbide Powder for Wafer Average Price by Type (2021-2032) & (US\$/Kg)

Figure 41. World High-purity Silicon Carbide Powder for Wafer Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Figure 42. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Purity in 2025

Figure 43. 5N

Figure 44. 6N

Figure 45. Other

Figure 46. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Purity (2021-2032)

Figure 47. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Purity (2021-2032)

Figure 48. World High-purity Silicon Carbide Powder for Wafer Average Price by Purity (2021-2032) & (US\$/Kg)

Figure 49. World High-purity Silicon Carbide Powder for Wafer Production Value by Electrical Behavior, (USD Million), 2021 & 2025 & 2032

Figure 50. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Electrical Behavior in 2025

Figure 51. Conductive (n-Type)

Figure 52. Semi-Insulating Type

Figure 53. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Electrical Behavior (2021-2032)

Figure 54. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Electrical Behavior (2021-2032)

Figure 55. World High-purity Silicon Carbide Powder for Wafer Average Price by Electrical Behavior (2021-2032) & (US\$/Kg)

Figure 56. World High-purity Silicon Carbide Powder for Wafer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Application in 2025

Figure 58. 4 Inch Wafer

Figure 59. 6 Inch Wafer

Figure 60. 8 Inch Wafer

Figure 61. World High-purity Silicon Carbide Powder for Wafer Production Market Share by Application (2021-2032)

Figure 62. World High-purity Silicon Carbide Powder for Wafer Production Value Market Share by Application (2021-2032)

Figure 63. World High-purity Silicon Carbide Powder for Wafer Average Price by Application (2021-2032) & (US\$/Kg)

Figure 64. High-purity Silicon Carbide Powder for Wafer Industry Chain

Figure 65. High-purity Silicon Carbide Powder for Wafer Procurement Model

Figure 66. High-purity Silicon Carbide Powder for Wafer Sales Model

Figure 67. High-purity Silicon Carbide Powder for Wafer Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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