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Global Recycled Silicon Carbide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Recycled Silicon Carbide market size is expected to reach $ 55.93 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

Recycled silicon carbide refers to silicon carbide materials recovered or regenerated from SiC-containing production residues, off-specification powders, crystal-growth remnants, semiconductor wafer-slicing or grinding slurry, spent abrasives, used refractory products, kiln furniture, technical ceramic waste, and other industrial materials containing recoverable silicon carbide. These feedstocks are processed through combinations of inspection and sorting, dewatering and deoiling, crushing, grinding, screening, particle-size classification, magnetic separation, flotation, centrifugation, acid or alkaline washing, thermal treatment, oxidation, chemical purification, surface modification, granulation, or briquetting. The purpose of these processes is to remove metals, free silicon, free carbon, oxides, binders, cutting fluids, and other contaminants and to produce a reusable material with defined SiC content, particle-size distribution, moisture level, chemical purity, and application-specific performance. Commercial products may be supplied as recycled SiC powder, micropowder, grain, grit, aggregate, granules, briquettes, or high-purity feedstock for applications including refractories, metallurgical additives, abrasive and polishing materials, industrial ceramics, thermal-management materials, and silicon carbide crystal growth.

Recycled silicon carbide is fundamentally a materials-regeneration industry rather than a conventional waste-disposal activity. Its commercial value is created by converting heterogeneous SiC-bearing residues into specification-controlled industrial feedstock with defined SiC content, particle-size distribution, moisture, impurity levels, and application performance. The market covers a broad quality spectrum, ranging from wet or lower-grade recovered material and refractory or metallurgical grains to purified

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industrial powders and high-purity crystal-growth feedstock. Each segment requires a different processing chain and supports a different economic model. Refractory and metallurgical products are generally produced through sorting, crushing, thermal treatment, and impurity reduction, whereas semiconductor-slurry recycling requires the separation of silicon carbide from silicon particles, cutting fluids, and other process materials. High-purity routes add substantially tighter controls over metals, oxygen, free carbon, and free silicon, together with batch traceability and customer qualification. NIKOM represents the established independent-recycler model, producing and trading secondary SiC powder and reporting approximately 9,000 tonnes of annual SiC-waste recovery capacity. Elifa and Semisils demonstrate the commercial recovery of silicon carbide from semiconductor slicing slurry, although their facilities also recover other materials and service revenues that must be separated from SiC product sales. The USGS estimates that approximately 5% of silicon carbide is recycled, but this figure includes captive reuse and non-merchant material circulation; it should therefore not be interpreted as the penetration rate of the third-party recycled-SiC market.

Report Scope

This report studies the global Recycled Silicon Carbide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Recycled Silicon Carbide total production and demand, 2021-2032, (Tons)

Global Recycled Silicon Carbide total production value, 2021-2032, (USD Million)

Global Recycled Silicon Carbide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

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Global Recycled Silicon Carbide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Recycled Silicon Carbide domestic production, consumption, key domestic manufacturers and share

Global Recycled Silicon Carbide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Recycled Silicon Carbide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Recycled Silicon Carbide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Recycled Silicon Carbide 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 NIKOM Kft, Saint-Gobain, AMITA HOLDINGS CO., LTD., Elifa Industrial Co., Ltd, Semisils Applied Materials Corp., Ltd., SiCreate GmbH, Anshan Yuyao, Schunk GmbH, 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 Recycled Silicon Carbide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) 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.

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Global Recycled Silicon Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Recycled Silicon Carbide Market, Segmentation by Type:

Physical Recycling

Chemical Recycling

Global Recycled Silicon Carbide Market, Segmentation by Form:

Powders

Granules

Global Recycled Silicon Carbide Market, Segmentation by Application:

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Refractories

Metallurgy and Foundry

Abrasives and Surface Processing

Technical Ceramics

Thermal Management Materials

SiC Crystal Growth

Semiconductor Materials

Other Applications

Companies Profiled:

NIKOM Kft

Saint-Gobain

AMITA HOLDINGS CO., LTD.

Elifa Industrial Co., Ltd

Semisils Applied Materials Corp., Ltd.

SiCreate GmbH

Anshan Yuyao

Schunk GmbH

Key Questions Answered:

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1. How big is the global Recycled Silicon Carbide market?
2. What is the demand of the global Recycled Silicon Carbide market?
3. What is the year over year growth of the global Recycled Silicon Carbide market?
4. What is the production and production value of the global Recycled Silicon Carbide market?
5. Who are the key producers in the global Recycled Silicon Carbide market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Recycled Silicon Carbide Production Value by Manufacturer (2021-2026)
3.2 World Recycled Silicon Carbide Production by Manufacturer (2021-2026)
3.3 World Recycled Silicon Carbide Average Price by Manufacturer (2021-2026)

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3.4 Recycled Silicon Carbide Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global Recycled Silicon Carbide Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for Recycled Silicon Carbide in 2025
3.5.3 Global Concentration Ratios (CR8) for Recycled Silicon Carbide in 2025
3.6 Recycled Silicon Carbide Market: Overall Company Footprint Analysis
3.6.1 Recycled Silicon Carbide Market: Region Footprint
3.6.2 Recycled Silicon Carbide Market: Company Product Type Footprint
3.6.3 Recycled Silicon Carbide 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: Recycled Silicon Carbide Production Value Comparison
4.1.1 United States VS China: Recycled Silicon Carbide Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: Recycled Silicon Carbide Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Recycled Silicon Carbide Production Comparison
4.2.1 United States VS China: Recycled Silicon Carbide Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Recycled Silicon Carbide Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Recycled Silicon Carbide Consumption Comparison
4.3.1 United States VS China: Recycled Silicon Carbide Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Recycled Silicon Carbide Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Recycled Silicon Carbide Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Recycled Silicon Carbide Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Recycled Silicon Carbide Production Value (2021-2026)

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

5 MARKET ANALYSIS BY TYPE

5.1 World Recycled Silicon Carbide Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Physical Recycling
5.2.2 Chemical Recycling
5.3 Market Segment by Type
5.3.1 World Recycled Silicon Carbide Production by Type (2021-2032)
5.3.2 World Recycled Silicon Carbide Production Value by Type (2021-2032)
5.3.3 World Recycled Silicon Carbide Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Recycled Silicon Carbide Market Size Overview by Form: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Form
6.2.1 Powders
6.2.2 Granules
6.3 Market Segment by Form
6.3.1 World Recycled Silicon Carbide Production by Form (2021-2032)
6.3.2 World Recycled Silicon Carbide Production Value by Form (2021-2032)

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info@marketpublishers.com

6.3.3 World Recycled Silicon Carbide Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Recycled Silicon Carbide Market Size Overview by Application: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Application
7.2.1 Refractories
7.2.2 Metallurgy and Foundry
7.2.3 Abrasives and Surface Processing
7.2.4 Technical Ceramics
7.2.5 Thermal Management Materials
7.2.6 SiC Crystal Growth
7.2.7 Semiconductor Materials
7.2.8 Other Applications
7.3 Market Segment by Application
7.3.1 World Recycled Silicon Carbide Production by Application (2021-2032)
7.3.2 World Recycled Silicon Carbide Production Value by Application (2021-2032)
7.3.3 World Recycled Silicon Carbide Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 NIKOM Kft
8.1.1 NIKOM Kft Details
8.1.2 NIKOM Kft Major Business
8.1.3 NIKOM Kft Recycled Silicon Carbide Product and Services
8.1.4 NIKOM Kft Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.1.5 NIKOM Kft Recent Developments/Updates
8.1.6 NIKOM Kft Competitive Strengths & Weaknesses
8.2 Saint-Gobain
8.2.1 Saint-Gobain Details
8.2.2 Saint-Gobain Major Business
8.2.3 Saint-Gobain Recycled Silicon Carbide Product and Services
8.2.4 Saint-Gobain Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.2.5 Saint-Gobain Recent Developments/Updates
8.2.6 Saint-Gobain Competitive Strengths & Weaknesses
8.3 AMITA HOLDINGS CO., LTD.

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8.3.1 AMITA HOLDINGS CO., LTD. Details
8.3.2 AMITA HOLDINGS CO., LTD. Major Business
8.3.3 AMITA HOLDINGS CO., LTD. Recycled Silicon Carbide Product and Services
8.3.4 AMITA HOLDINGS CO., LTD. Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.3.5 AMITA HOLDINGS CO., LTD. Recent Developments/Updates
8.3.6 AMITA HOLDINGS CO., LTD. Competitive Strengths & Weaknesses
8.4 Elifa Industrial Co., Ltd
8.4.1 Elifa Industrial Co., Ltd Details
8.4.2 Elifa Industrial Co., Ltd Major Business
8.4.3 Elifa Industrial Co., Ltd Recycled Silicon Carbide Product and Services
8.4.4 Elifa Industrial Co., Ltd Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.4.5 Elifa Industrial Co., Ltd Recent Developments/Updates
8.4.6 Elifa Industrial Co., Ltd Competitive Strengths & Weaknesses
8.5 Semisils Applied Materials Corp., Ltd.
8.5.1 Semisils Applied Materials Corp., Ltd. Details
8.5.2 Semisils Applied Materials Corp., Ltd. Major Business
8.5.3 Semisils Applied Materials Corp., Ltd. Recycled Silicon Carbide Product and Services
8.5.4 Semisils Applied Materials Corp., Ltd. Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.5.5 Semisils Applied Materials Corp., Ltd. Recent Developments/Updates
8.5.6 Semisils Applied Materials Corp., Ltd. Competitive Strengths & Weaknesses
8.6 SiCreate GmbH
8.6.1 SiCreate GmbH Details
8.6.2 SiCreate GmbH Major Business
8.6.3 SiCreate GmbH Recycled Silicon Carbide Product and Services
8.6.4 SiCreate GmbH Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.6.5 SiCreate GmbH Recent Developments/Updates
8.6.6 SiCreate GmbH Competitive Strengths & Weaknesses
8.7 Anshan Yuyao
8.7.1 Anshan Yuyao Details
8.7.2 Anshan Yuyao Major Business
8.7.3 Anshan Yuyao Recycled Silicon Carbide Product and Services
8.7.4 Anshan Yuyao Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.7.5 Anshan Yuyao Recent Developments/Updates

+357 96 030922
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8.7.6 Anshan Yuyao Competitive Strengths & Weaknesses
8.8 Schunk GmbH
8.8.1 Schunk GmbH Details
8.8.2 Schunk GmbH Major Business
8.8.3 Schunk GmbH Recycled Silicon Carbide Product and Services
8.8.4 Schunk GmbH Recycled Silicon Carbide Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.8.5 Schunk GmbH Recent Developments/Updates
8.8.6 Schunk GmbH Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Recycled Silicon Carbide Industry Chain
9.2 Recycled Silicon Carbide Upstream Analysis
9.2.1 Recycled Silicon Carbide Core Raw Materials
9.2.2 Main Manufacturers of Recycled Silicon Carbide Core Raw Materials
9.3 Midstream Analysis
9.4 Downstream Analysis
9.5 Recycled Silicon Carbide Production Mode
9.6 Recycled Silicon Carbide Procurement Model
9.7 Recycled Silicon Carbide Industry Sales Model and Sales Channels
9.7.1 Recycled Silicon Carbide Sales Model
9.7.2 Recycled Silicon Carbide Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology
11.2 Research Process and Data Source
11.3 Disclaimer

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Recycled Silicon Carbide Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Recycled Silicon Carbide Production Value by Region (2021-2026) & (USD Million)
Table 3. World Recycled Silicon Carbide Production Value by Region (2027-2032) & (USD Million)
Table 4. World Recycled Silicon Carbide Production Value Market Share by Region (2021-2026)
Table 5. World Recycled Silicon Carbide Production Value Market Share by Region (2027-2032)
Table 6. World Recycled Silicon Carbide Production by Region (2021-2026) & (Tons)
Table 7. World Recycled Silicon Carbide Production by Region (2027-2032) & (Tons)
Table 8. World Recycled Silicon Carbide Production Market Share by Region (2021-2026)
Table 9. World Recycled Silicon Carbide Production Market Share by Region (2027-2032)
Table 10. World Recycled Silicon Carbide Average Price by Region (2021-2026) & (US$/Ton)
Table 11. World Recycled Silicon Carbide Average Price by Region (2027-2032) & (US$/Ton)
Table 12. Recycled Silicon Carbide Major Market Trends
Table 13. World Recycled Silicon Carbide Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
Table 14. World Recycled Silicon Carbide Consumption by Region (2021-2026) & (Tons)
Table 15. World Recycled Silicon Carbide Consumption Forecast by Region (2027-2032) & (Tons)
Table 16. World Recycled Silicon Carbide Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Recycled Silicon Carbide Producers in 2025
Table 18. World Recycled Silicon Carbide Production by Manufacturer (2021-2026) & (Tons)
Table 19. Production Market Share of Key Recycled Silicon Carbide Producers in 2025
Table 20. World Recycled Silicon Carbide Average Price by Manufacturer (2021-2026)

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& (US$/Ton)
Table 21. Global Recycled Silicon Carbide Company Evaluation Quadrant
Table 22. World Recycled Silicon Carbide Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Recycled Silicon Carbide Production Site of Key Manufacturer
Table 24. Recycled Silicon Carbide Market: Company Product Type Footprint
Table 25. Recycled Silicon Carbide Market: Company Product Application Footprint
Table 26. Recycled Silicon Carbide Competitive Factors
Table 27. Recycled Silicon Carbide New Entrant and Capacity Expansion Plans
Table 28. Recycled Silicon Carbide Mergers & Acquisitions Activity
Table 29. United States VS China Recycled Silicon Carbide Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Recycled Silicon Carbide Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China Recycled Silicon Carbide Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based Recycled Silicon Carbide Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Recycled Silicon Carbide Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Recycled Silicon Carbide Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Recycled Silicon Carbide Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers Recycled Silicon Carbide Production Market Share (2021-2026)
Table 37. China Based Recycled Silicon Carbide Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Recycled Silicon Carbide Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Recycled Silicon Carbide Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Recycled Silicon Carbide Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Recycled Silicon Carbide Production Market Share (2021-2026)
Table 42. Rest of World Based Recycled Silicon Carbide Manufacturers, Headquarters and Production Site (State, Country)

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Table 43. Rest of World Based Manufacturers Recycled Silicon Carbide Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Recycled Silicon Carbide Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Recycled Silicon Carbide Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers Recycled Silicon Carbide Production Market Share (2021-2026)
Table 47. World Recycled Silicon Carbide Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Recycled Silicon Carbide Production by Type (2021-2026) & (Tons)
Table 49. World Recycled Silicon Carbide Production by Type (2027-2032) & (Tons)
Table 50. World Recycled Silicon Carbide Production Value by Type (2021-2026) & (USD Million)
Table 51. World Recycled Silicon Carbide Production Value by Type (2027-2032) & (USD Million)
Table 52. World Recycled Silicon Carbide Average Price by Type (2021-2026) & (US$/Ton)
Table 53. World Recycled Silicon Carbide Average Price by Type (2027-2032) & (US$/Ton)
Table 54. World Recycled Silicon Carbide Production Value by Form, (USD Million), 2021 & 2025 & 2032
Table 55. World Recycled Silicon Carbide Production by Form (2021-2026) & (Tons)
Table 56. World Recycled Silicon Carbide Production by Form (2027-2032) & (Tons)
Table 57. World Recycled Silicon Carbide Production Value by Form (2021-2026) & (USD Million)
Table 58. World Recycled Silicon Carbide Production Value by Form (2027-2032) & (USD Million)
Table 59. World Recycled Silicon Carbide Average Price by Form (2021-2026) & (US$/Ton)
Table 60. World Recycled Silicon Carbide Average Price by Form (2027-2032) & (US$/Ton)
Table 61. World Recycled Silicon Carbide Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 62. World Recycled Silicon Carbide Production by Application (2021-2026) & (Tons)
Table 63. World Recycled Silicon Carbide Production by Application (2027-2032) & (Tons)
Table 64. World Recycled Silicon Carbide Production Value by Application (2021-2026)

+357 96 030922
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& (USD Million)
Table 65. World Recycled Silicon Carbide Production Value by Application (2027-2032) & (USD Million)
Table 66. World Recycled Silicon Carbide Average Price by Application (2021-2026) & (US$/Ton)
Table 67. World Recycled Silicon Carbide Average Price by Application (2027-2032) & (US$/Ton)
Table 68. NIKOM Kft Basic Information, Manufacturing Base and Competitors
Table 69. NIKOM Kft Major Business
Table 70. NIKOM Kft Recycled Silicon Carbide Product and Services
Table 71. NIKOM Kft Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. NIKOM Kft Recent Developments/Updates
Table 73. NIKOM Kft Competitive Strengths & Weaknesses
Table 74. Saint-Gobain Basic Information, Manufacturing Base and Competitors
Table 75. Saint-Gobain Major Business
Table 76. Saint-Gobain Recycled Silicon Carbide Product and Services
Table 77. Saint-Gobain Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. Saint-Gobain Recent Developments/Updates
Table 79. Saint-Gobain Competitive Strengths & Weaknesses
Table 80. AMITA HOLDINGS CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 81. AMITA HOLDINGS CO., LTD. Major Business
Table 82. AMITA HOLDINGS CO., LTD. Recycled Silicon Carbide Product and Services
Table 83. AMITA HOLDINGS CO., LTD. Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. AMITA HOLDINGS CO., LTD. Recent Developments/Updates
Table 85. AMITA HOLDINGS CO., LTD. Competitive Strengths & Weaknesses
Table 86. Elifa Industrial Co., Ltd Basic Information, Manufacturing Base and Competitors
Table 87. Elifa Industrial Co., Ltd Major Business
Table 88. Elifa Industrial Co., Ltd Recycled Silicon Carbide Product and Services
Table 89. Elifa Industrial Co., Ltd Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Elifa Industrial Co., Ltd Recent Developments/Updates
Table 91. Elifa Industrial Co., Ltd Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

Table 92. Semisils Applied Materials Corp., Ltd. Basic Information, Manufacturing Base and Competitors
Table 93. Semisils Applied Materials Corp., Ltd. Major Business
Table 94. Semisils Applied Materials Corp., Ltd. Recycled Silicon Carbide Product and Services
Table 95. Semisils Applied Materials Corp., Ltd. Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Semisils Applied Materials Corp., Ltd. Recent Developments/Updates
Table 97. Semisils Applied Materials Corp., Ltd. Competitive Strengths & Weaknesses
Table 98. SiCreate GmbH Basic Information, Manufacturing Base and Competitors
Table 99. SiCreate GmbH Major Business
Table 100. SiCreate GmbH Recycled Silicon Carbide Product and Services
Table 101. SiCreate GmbH Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. SiCreate GmbH Recent Developments/Updates
Table 103. SiCreate GmbH Competitive Strengths & Weaknesses
Table 104. Anshan Yuyao Basic Information, Manufacturing Base and Competitors
Table 105. Anshan Yuyao Major Business
Table 106. Anshan Yuyao Recycled Silicon Carbide Product and Services
Table 107. Anshan Yuyao Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Anshan Yuyao Recent Developments/Updates
Table 109. Anshan Yuyao Competitive Strengths & Weaknesses
Table 110. Schunk GmbH Basic Information, Manufacturing Base and Competitors
Table 111. Schunk GmbH Major Business
Table 112. Schunk GmbH Recycled Silicon Carbide Product and Services
Table 113. Schunk GmbH Recycled Silicon Carbide Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Schunk GmbH Recent Developments/Updates
Table 115. Schunk GmbH Competitive Strengths & Weaknesses
Table 116. Global Key Players of Recycled Silicon Carbide Upstream (Raw Materials)
Table 117. Global Recycled Silicon Carbide Typical Customers
Table 118. Recycled Silicon Carbide Typical Distributors

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List Of Figures

LIST OF FIGURES

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

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Figure 26. United States VS China: Recycled Silicon Carbide Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States Based Manufacturers Recycled Silicon Carbide Production Market Share 2025
Figure 28. China Based Manufacturers Recycled Silicon Carbide Production Market Share 2025
Figure 29. Rest of World Based Manufacturers Recycled Silicon Carbide Production Market Share 2025
Figure 30. World Recycled Silicon Carbide Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 31. World Recycled Silicon Carbide Production Value Market Share by Type in 2025
Figure 32. Physical Recycling
Figure 33. Chemical Recycling
Figure 34. World Recycled Silicon Carbide Production Market Share by Type (2021-2032)
Figure 35. World Recycled Silicon Carbide Production Value Market Share by Type (2021-2032)
Figure 36. World Recycled Silicon Carbide Average Price by Type (2021-2032) & (US$/Ton)
Figure 37. World Recycled Silicon Carbide Production Value by Form, (USD Million), 2021 & 2025 & 2032
Figure 38. World Recycled Silicon Carbide Production Value Market Share by Form in 2025
Figure 39. Powders
Figure 40. Granules
Figure 41. World Recycled Silicon Carbide Production Market Share by Form (2021-2032)
Figure 42. World Recycled Silicon Carbide Production Value Market Share by Form (2021-2032)
Figure 43. World Recycled Silicon Carbide Average Price by Form (2021-2032) & (US$/Ton)
Figure 44. World Recycled Silicon Carbide Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 45. World Recycled Silicon Carbide Production Value Market Share by Application in 2025
Figure 46. Refractories
Figure 47. Metallurgy and Foundry
Figure 48. Abrasives and Surface Processing

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Figure 49. Technical Ceramics
Figure 50. Thermal Management Materials
Figure 51. SiC Crystal Growth
Figure 52. Semiconductor Materials
Figure 53. Other Applications
Figure 54. Other Applications
Figure 55. World Recycled Silicon Carbide Production Market Share by Application (2021-2032)
Figure 56. World Recycled Silicon Carbide Production Value Market Share by Application (2021-2032)
Figure 57. World Recycled Silicon Carbide Average Price by Application (2021-2032) & (US$/Ton)
Figure 58. Recycled Silicon Carbide Industry Chain
Figure 59. Recycled Silicon Carbide Procurement Model
Figure 60. Recycled Silicon Carbide Sales Model
Figure 61. Recycled Silicon Carbide Sales Channels, Direct Sales, and Distribution
Figure 62. Methodology
Figure 63. Research Process and Data Source

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