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Global Recycled Silicon Carbide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Recycled Silicon Carbide market size was valued at US$ 26.44 million in 2025 and is forecast to a readjusted size of US$ 55.93 million by 2032 with a CAGR of 11.2% during review period.

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

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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 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 is a detailed and comprehensive analysis for global Recycled Silicon Carbide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Recycled Silicon Carbide market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Recycled Silicon Carbide market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

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Global Recycled Silicon Carbide market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Recycled Silicon Carbide market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Recycled Silicon Carbide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Recycled Silicon Carbide market based on the following parameters - company overview, sales quantity, revenue, 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.

Recycled Silicon Carbide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

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Market segment by Type

Physical Recycling

Chemical Recycling

Market segment by Form

Powders

Granules

Market segment by Application

Refractories

Metallurgy and Foundry

Abrasives and Surface Processing

Technical Ceramics

Thermal Management Materials

SiC Crystal Growth

Semiconductor Materials

Other Applications

Major players covered

NIKOM Kft

Saint-Gobain

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AMITA HOLDINGS CO., LTD.

Elifa Industrial Co., Ltd

Semisils Applied Materials Corp., Ltd.

SiCreate GmbH

Anshan Yuyao

Schunk GmbH

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Recycled Silicon Carbide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Recycled Silicon Carbide, with price, sales quantity, revenue, and global market share of Recycled Silicon Carbide from 2021 to 2026.

Chapter 3, the Recycled Silicon Carbide competitive situation, sales quantity, revenue,

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and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Recycled Silicon Carbide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Recycled Silicon Carbide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Recycled Silicon Carbide.

Chapter 14 and 15, to describe Recycled Silicon Carbide sales channel, distributors, customers, research findings and conclusion.

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