

# **Silicon Carbide Market Analysis By Product (Black Silicon Carbide, Green Silicon Carbide), By End-use (Steel & Energy, Automotive, Aerospace & Aviation, Military & Defense, Medical & Healthcare, Electronics & Semiconductors) And Segment Forecasts To 2020**

<https://marketpublishers.com/r/S9EC9D96955EN.html>

Date: May 2015

Pages: 95

Price: US\$ 4,450.00 (Single User License)

ID: S9EC9D96955EN

## **Abstracts**

The Global Silicon Carbide Market is expected to reach USD 4.49 billion by 2020, according to a new study by Grand View Research, Inc. Positive outlook on steel manufacturing, for which SiC is used as a deoxidizing agent is expected to drive silicon carbide demand. In addition, silicon carbide is an essential element in the manufacturing of semiconductors which is expected to witness significant growth over the next six years. Revitalizing automobile industry, especially in Asia Pacific, is also expected boost the demand for silicon carbide.

Steel and energy were the largest end use application segments for SiC, accounting for 302 kilo tons of total demand in 2013. Increasing demand for steel and energy in emerging markets of India and China, driven by infrastructure development, is expected to be a key factor for demand growth over the forecast period. Silicon carbide is also extensively used in electronics and semiconductors applications, owing to its superior properties, that accounted for over 255 kilo tons of demand in 2013.

Further key findings from the study suggest:

Global silicon carbide demand was 1,060.1 Kilo tons in 2013 and is expected to reach 2,769.0 Kilo tons by 2020, growing at a CAGR of 15.2% from 2014 to 2020.

Black silicon carbide is most dominant product, with demand estimated at 745 6 Kilo tons in 2013 due to its wider application scope in comparison to other forms of silicon carbide.

Asia Pacific was the largest regional market for silicon carbide, with revenue exceeding USD 870 million in 2013. The presence of key end user industries such as steel and automotive is expected to boost demand in the region. In addition, the region is also expected to witness fastest growth, at an estimated CAGR of 16.8% from 2014 to 2020.

Medical and healthcare end use application is expected to witness fastest growth at an estimated CAGR of 16.5% from 2014 to 2020. Increasing demand for advanced medical and healthcare in countries such as India, China, and Japan is expected to drive demand in this application.

Key Companies in the market include AGSCO Corporation, Dow Chemical Company, Saint-Gobain Ceramics Materials GmbH, ESD-SIC b.v, Grindwell Norton Ltd.

## Contents

### CHAPTER 1 EXECUTIVE SUMMARY

1.1 Silicon Carbide - Industry Summary & Critical Success Factors (CSFs)

### CHAPTER 2 SILICON CARBIDE INDUSTRY OUTLOOK

2.1 Market Segmentation

2.2 Market Size and Growth Prospects

2.3 Silicon Carbide Value Chain Analysis

2.4 Silicon Carbide Market Dynamics

2.4.1 Market driver analysis

2.4.1.1 Growing demand from steel and energy

2.4.1.2 Growing semiconductor and electronics industry

2.4.2 Market restraint analysis

2.4.2.1 Cost issues

2.5 Key Opportunities Prioritized

2.6 Industry Analysis - Porter's

2.7 Silicon Carbide - Company Market Share Analysis

2.8 Silicon Carbide - PESTEL Analysis

### CHAPTER 3 SILICON CARBIDE PRODUCT OUTLOOK

3.1 Black Silicon Carbide

3.1.1. Global Silicon carbide demand in black silicon carbide, 2012-2020, (Kilo Tons), (USD million)

3.2 Green Silicon Carbide

3.2.1 Global Silicon carbide demand in green silicon carbide, 2012-2020, (Kilo Tons), (USD million)

3.3 Others

3.3.1 Global Silicon carbide demand from others, 2012-2020, (Kilo Tons), (USD million)

### CHAPTER 4 SILICON CARBIDE END-USE OUTLOOK

4.1 Steel and Energy

4.1.1. Global demand from steel and energy, 2012-2020, (Kilo Tons), (USD million)

4.2 Automotives

- 4.2.1. Global demand from Automotives, 2012-2020, (Kilo Tons), (USD million)
- 4.3 Aerospace and Aviation
  - 4.3.1. Global demand from aerospace and aviation, 2012-2020, (Kilo Tons), (USD million)
- 4.4 Military and Defense
  - 4.4.1. Global demand from military and defense, 2012-2020, (Kilo Tons), (USD million)
- 4.5 Electronics and Semiconductors
  - 4.5.1. Global demand from electronics and semiconductors, 2012-2020, (Kilo Tons), (USD million)
- 4.6 Medical and Healthcare
  - 4.6.1. Global demand from medical and healthcare, 2012-2020, (Kilo Tons), (USD million)
- 4.7 Others
  - 4.7.1. Global demand from others, 2012-2020, (Kilo Tons), (USD million)

## **CHAPTER 5 SILICON CARBIDE REGIONAL OUTLOOK**

- 5.1 North America
  - 5.1.1. Market volume & revenue by Product, 2012-2020 (Kilo Tons), (USD million)
  - 5.1.2. Market volume & revenue by End-use, 2012-2020 (Kilo Tons), (USD million)
- 5.2 Europe
  - 5.2.1. Market volume & revenue by Product, 2012-2020 (Kilo Tons), (USD million)
  - 5.2.2. Market volume & revenue by End-use, 2012-2020 (Kilo Tons), (USD million)
- 5.3 Asia Pacific
  - 5.3.1. Market volume & revenue by Product, 2012-2020 (Kilo Tons), (USD million)
  - 5.3.2. Market volume & revenue by End-use, 2012-2020 (Kilo Tons), (USD million)
- 5.4 RoW
  - 5.4.1 Market volume & revenue by Product, 2012-2020 (Kilo Tons), (USD million)
  - 5.4.2 Market volume & revenue by End-use, 2012-2020 (Kilo Tons), (USD million)

## **CHAPTER 6 SILICON CARBIDE COMPETITIVE LANDSCAPE**

- 6.1 AGSCO Corporation
  - 6.1.1 Company Overview
  - 6.1.2 Financial Performance
  - 6.1.3 Product Benchmarking
  - 6.1.4 Strategic Initiatives
- 6.2 Carborundum Universal Ltd
  - 6.2.1 Company Overview

- 6.2.2 Financial Performance
- 6.2.3 Product Benchmarking
- 6.2.4 Strategic Initiatives
- 6.3 Dow Chemical Company
  - 6.3.1 Company Overview
  - 6.3.2 Financial Performance
  - 6.3.3 Product Benchmarking
  - 6.3.4 Strategic Initiatives
- 6.4 Entegris Inc
  - 6.4.1 Company Overview
  - 6.4.2 Financial Performance
  - 6.4.3 Product Benchmarking
  - 6.4.4 Strategic Initiatives
- 6.5 ESD-SIC b.v
  - 6.5.1 Company Overview
  - 6.5.2 Financial Performance
  - 6.5.3 Product Benchmarking
  - 6.5.4 Strategic Initiatives
- 6.6 ESK-SIC GmbH
  - 6.6.1 Company Overview
  - 6.6.2 Financial Performance
  - 6.6.3 Product Benchmarking
  - 6.6.4 Strategic Initiatives
- 6.7 Gaddis Engineered Materials
  - 6.7.1 Company Overview
  - 6.7.2 Financial Performance
  - 6.7.3 Product Benchmarking
  - 6.7.4 Strategic Initiatives
- 6.8 Grindwell Norton Ltd
  - 6.8.1 Company Overview
  - 6.8.2 Financial Performance
  - 6.8.3 Product Benchmarking
  - 6.8.4 Strategic Initiatives
- 6.9 Saint-Gobain Ceramics Materials GmbH
  - 6.9.1 Company Overview
  - 6.9.2 Financial Performance
  - 6.9.3 Product Benchmarking
  - 6.9.4 Strategic Initiatives
- 6.10 Snam Abrasives Pvt. Ltd

- 6.10.1 Company Overview
- 6.10.2 Financial Performance
- 6.10.3 Product Benchmarking
- 6.10.4 Strategic Initiatives

## **CHAPTER 7 METHODOLOGY & SCOPE**

- 7.1 Research Methodology
- 7.2 Research Scope & Assumptions
- 7.3 List of Data Sources

## I would like to order

Product name: Silicon Carbide Market Analysis By Product (Black Silicon Carbide, Green Silicon Carbide), By End-use (Steel & Energy, Automotive, Aerospace & Aviation, Military & Defense, Medical & Healthcare, Electronics & Semiconductors) And Segment Forecasts To 2020

Product link: <https://marketpublishers.com/r/S9EC9D96955EN.html>

Price: US\$ 4,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S9EC9D96955EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970