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Global Automotive Silicon Carbide Technology Market 2025 by Company, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/GC6851E7E73CEN.html
Date: November 2025
Pages: 102
Price: US$ 3,480.00 (Single User License)
ID: GC6851E7E73CEN

Abstracts

According to our latest research, the global Automotive Silicon Carbide Technology market size will reach USD million in 2031, growing at a CAGR of %over the analysis period.

Silicon Carbide (SiC) is a game-changer in automotive technology, particularly for EVs and HEVs.

SiC devices can operate at higher temperatures and switching frequencies, resulting in significantly lower energy losses within power electronics. This translates to:extended driving range for EVs. and improved fuel efficiency for HEVs.

This report is a detailed and comprehensive analysis for global Automotive Silicon Carbide Technology market. Both quantitative and qualitative analyses are presented by company, 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 Automotive Silicon Carbide Technology market size and forecasts, in consumption value ($ Million), 2020-2031

Global Automotive Silicon Carbide Technology market size and forecasts by region and

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country, in consumption value ($ Million), 2020-2031

Global Automotive Silicon Carbide Technology market size and forecasts, by Type and by Application, in consumption value ($ Million), 2020-2031

Global Automotive Silicon Carbide Technology market shares of main players, in revenue ($ Million), 2020-2025

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 Automotive Silicon Carbide Technology

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 Automotive Silicon Carbide Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed, STMicroelectronics, Infineon Technologies AG, Mitsubishi Electric Corporation, ROHM Co., Ltd, ABB Switzerland Ltd, Nexperia (Netherlands), Onsemi, GeneSiC Semiconductor Inc, Microchip Technology Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Automotive Silicon Carbide Technology market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

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Power Electronics

On-Board Chargers

Inverters

Others

Market segment by Application

BEV

PHEV

Market segment by players, this report covers

Wolfspeed

STMicroelectronics

Infineon Technologies AG

Mitsubishi Electric Corporation

ROHM Co., Ltd

ABB Switzerland Ltd

Nexperia (Netherlands)

Onsemi

GeneSiC Semiconductor Inc

Microchip Technology Inc

Toshiba

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Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

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

Chapter 2, to profile the top players of Automotive Silicon Carbide Technology, with revenue, gross margin, and global market share of Automotive Silicon Carbide Technology from 2020 to 2025.

Chapter 3, the Automotive Silicon Carbide Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.and Automotive Silicon Carbide Technology market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

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Chapter 12, the key raw materials and key suppliers, and industry chain of Automotive Silicon Carbide Technology.

Chapter 13, to describe Automotive Silicon Carbide Technology research findings and conclusion.

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