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Global Automotive Silicon Carbide Components Market Growth 2026-2032

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Abstracts

The global Automotive Silicon Carbide Components market size is predicted to grow from US$ million in 2025 to US$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Automotive Silicon Carbide (SiC) components refer to the use of silicon carbide, a compound of silicon and carbon, in various parts and systems within automobiles. Silicon carbide is known for its exceptional hardness, high thermal conductivity, and high temperature resistance, making it a desirable material for applications in the automotive industry.

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

LP Information, Inc. (LPI) ' newest research report, the ?Automotive Silicon Carbide Components Industry Forecast? looks at past sales and reviews total world Automotive Silicon Carbide Components sales in 2025, providing a comprehensive analysis by

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region and market sector of projected Automotive Silicon Carbide Components sales for 2026 through 2032. With Automotive Silicon Carbide Components sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Silicon Carbide Components industry.

This Insight Report provides a comprehensive analysis of the global Automotive Silicon Carbide Components landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Silicon Carbide Components portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Automotive Silicon Carbide Components market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Silicon Carbide Components and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Silicon Carbide Components.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Silicon Carbide Components market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

IGBT Components

MOSFET Components

Segmentation by Application:

Electric Car Charger

Motor Driven

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Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Wolfspeed

Infineon Technologies

ROHM

Technologies

Cree

Fuji Electric

ON Semiconductor

General Electric

Toshiba corporation

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Renesas Electronics

Microchip Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Silicon Carbide Components market?

What factors are driving Automotive Silicon Carbide Components market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Silicon Carbide Components market opportunities vary by end market size?

How does Automotive Silicon Carbide Components break out by Type, by Application?

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