

Global Silicon Carbide Wafers Market Size study, by Wafer Size (2 Inch, 4 Inch, 6-Inch and Above) by Device (SiC Discrete Devices, SiC Bare Die) by Application (Power Grid Device, RF Device & Cellular Base Station, Flexible AC Transmission Systems, High-Voltage, Direct Current, Electronic Combat System, Lighting Control, Power Supply and Inverter, Industrial Motor Drive, EV Charging, EV Motor Drive, Solar Energy, Wind Energy, Flame Detector, Others), by Industry (Telecommunication, Energy & Power, Power Electronics, Automotive, Renewable Power Generation, Defense, Others) and Regional Forecasts 2022-2028

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Abstracts

Global Silicon Carbide Wafers Market is valued approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2028. Silicon Carbide Wafers is also known as carborundum which acts as a semiconductor that contains silicon and carbon. This occurs in nature as an extremely rare mineral moissanite. The increasing innovation by the key market players has led the adoption of Silicon Carbide Wafers across the forecast period. For Instance: in 2021, WOLFSPEED INC, launched the Wolfspeed WolfPACK power modules to offer increased efficiency to electric vehicle fast charging and solar markets. This new module delivers maximum efficiency in easy-to-use packages which allowed designers for significantly increasing efficiency and performance with smaller, more

scalable power systems. Also, with the increasing demand for silicon carbide for EV power electronics, the adoption & demand for Silicon Carbide Wafers is likely to increase the market growth during the forecast period. However, shift towards gallium nitride wafers in semiconductor applications impedes the growth of the market over the forecast period of 2022-2028.

The key regions considered for the global Silicon Carbide Wafers market study includes Asia Pacific, North America, Europe, Latin America and Rest of the World. Europe is the leading region across the world in terms of market share owing to the growing geriatric population and promptness & affordability of urgent care Wafer Sizes coupled with the well-established healthcare infrastructure. Whereas, Asia-Pacific is anticipated to exhibit highest growth rate over the forecast period 2022-2028. Factors such as rising disposable income, rising incidences of injuries and improving healthcare infrastructure would create lucrative growth prospects for the Silicon Carbide Wafers market across Asia-Pacific region.

Major market player included in this report are:

WOLFSPEED, INC.

II-VI Incorporated

MTI Corporation

CETC Solar Energy Holdings Co., Ltd.

American Elements

STMicroelectronics

TankeBlue CO., LTD.

Synlight, SICC

PI-KEM Limited

Entegris

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Wafer Size:

2 Inch

4 Inch

6-Inch and Above

By Device:

SiC Discrete Devices

SiC Bare Die

By Application:

Power Grid Device

RF Device & Cellular Base Station

Flexible AC Transmission Systems

High-Voltage

Direct Current

Electronic Combat System

Lighting Control

Power Supply and Inverter

Industrial Motor Drive

EV Charging

EV Motor Drive

Solar Energy

Wind Energy

Flame Detector

Others

By Industry:

Telecommunication

Energy & Power

Power Electronics

Automotive

Renewable Power Generation

Defense

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Silicon Carbide Wafers Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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