

Global SiC Substrates Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global SiC Substrates market size was valued at US\$ 555.1 million in 2023. With growing demand in downstream market, the SiC Substrates is forecast to a readjusted size of US\$ 1792.1 million by 2030 with a CAGR of 18.2% during review period.

The research report highlights the growth potential of the global SiC Substrates market. SiC Substrates are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of SiC Substrates. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the SiC Substrates market.

Silicon carbide (SiC), also known as carborundum, is a compound of silicon and carbon with chemical formula SiC. Silicon carbide is a semiconductor, which can be doped n-type by nitrogen or phosphorus and p-type by beryllium, boron, aluminium, or gallium. Metallic conductivity has been achieved by heavy doping with boron, aluminium or nitrogen.

SiC Substrates is a semiconductor material with unique electrical properties and excellent thermal properties, compared to silicon wafer and gallium arsenide wafer, SiC is more suitable for high temperature and high power device. SiC Substrates can be supplied in diameter 2 inch, both 4-H or 6-H polytype N-type, Nitrogen doped, and Si face polished. It can be used in GaN epitaxy device, Optoelectronic device, High frequency device, High power device, High temperature device, Light emitting diodes.

Alpha silicon carbide (α -SiC) is the most commonly encountered polymorph; it is formed at temperatures greater than 1700 °C and has a hexagonal crystal structure (similar to Wurtzite). The beta modification (β -SiC), with a zinc blende crystal structure (similar to diamond), is formed at temperatures below 1700 °C. Until recently, the beta form has had relatively few commercial uses, although there is now increasing interest in its use as a support for heterogeneous catalysts, owing to its higher surface area compared to the alpha form.

For now, the main application of silicon carbide substrate in LED solid-state lighting field and high-frequency devices

As the basic material of the third generation semiconductor industry, silicon carbide substrate has a high application prospect and industrial value, and has an important strategic position in the development of China's semiconductor industry. For a long time, the core technology and market of silicon carbide substrate are basically monopolized by developed countries in Europe and the United States, and the larger the product size, the higher the level of technical parameters, the more obvious its technical advantages. China's silicon carbide crystal research only started in the late 1990s, and failed to achieve industrialization due to technical bottlenecks and capacity limits in the early stage of development, which is far behind the international advanced level. Since the beginning of the 21st century, under the support and guidance of the national industrial policy, the development of China's silicon carbide wafer industry has been greatly accelerated. Excellent silicon carbide substrate manufacturing enterprises with independent intellectual property rights such as Tianke Heda and Shandong Tianyue have emerged successively. Domestic enterprises to technology-driven development, deep cultivation of silicon carbide wafer and crystal manufacturing, gradually master 2 inches to 6 inches of silicon carbide crystal and wafer manufacturing technology, break the domestic silicon carbide wafer manufacturing technology gap and gradually narrow the technology gap with the developed countries.

Global core SiC substrates players include Cree (Wolfspeed), II-VI Advanced Materials and ROHM etc. The top 5 companies hold a share about 56%. North America is the largest market, with a share about 34% in the world, followed by China and Europe with the same share about 26%. and 29%. The major players in China SiC Substrates market include Cree(Wolfspeed) , II-VI Advanced Materials, TankeBlue Semiconductor, etc. The top 3 players hold about 80% of the whole market shares. East China and South China are main markets for SiC Substrates, which hold a share about 80%.

Key Features:

The report on SiC Substrates market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the SiC Substrates market. It may include historical data, market segmentation by Inch (e.g., 4 Inch, 6 Inch), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the SiC Substrates market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the SiC Substrates market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the SiC Substrates industry. This include advancements in SiC Substrates technology, SiC Substrates new entrants, SiC Substrates new investment, and other innovations that are shaping the future of SiC Substrates.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the SiC Substrates market. It includes factors influencing customer ' purchasing decisions, preferences for SiC Substrates product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the SiC Substrates market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting SiC Substrates market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the SiC Substrates market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research

report provide market forecasts and outlook for the SiC Substrates industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the SiC Substrates market.

Market Segmentation:

SiC Substrates market is split by Inch and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Inch, and by Application in terms of volume and value.

Segmentation by inch

4 Inch

6 Inch

8 Inch

Segmentation by application

Power component

RF device

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

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 analyzing the company's coverage, product portfolio, its market penetration.

Cree (Wolfspeed)

II-VI Advanced Materials

TankeBlue Semiconductor

SICC Materials

Beijing Cengol Semiconductor

Showa Denko (NSSMC)

Hebei Synlight Crystal

Norstel

ROHM

SK Siltron

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Substrates market?

What factors are driving SiC Substrates market growth, globally and by region?

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

How do SiC Substrates market opportunities vary by end market size?

How does SiC Substrates break out inch, application?

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