

SiC-On-Insulator (SiCOI) Film Market Growth Analysis With Investment Opportunities For 2024-2033

The Business Research Company's SiC-On-Insulator (SiCOI) Film Market Growth Analysis With Investment Opportunities For 2024-2033

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The SiC-on-Insulator (SiCOI) film
market has experienced robust growth
in recent years, expanding from \$0.04
billion in 2023 to \$0.06 billion in 2024

at a compound annual growth rate (CAGR) of 48.8%. The growth in the historic period can be attributed to increased demand for power electronics in renewable energy applications, increased adoption of SiCOI in high-frequency, high-power electronic applications, rising adoption of electric vehicles, government incentives and regulations, and the need for high-frequency and high-power devices.

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Company*

Strong Future Growth Anticipated

The SiC-on-Insulator (SiCOI) film market is projected to continue its strong growth, reaching \$0.30 billion in 2028 at a compound annual growth rate (CAGR) of 49.0%. The growth in the forecast period can be attributed to growing investment in 5G infrastructure, growing demand for efficient power devices, the rollout of 5G networks and the development of 6G technologies, the rise of Industry 4.0 and the internet of things, and growing adoption in the aerospace industry.



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SiC-On-Insulator (SiCOI) Film Global Market Report
2024 –Market Size, Trends, And Global Forecast 2024-
2033

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Growth Driver Of The SiC-On-Insulator (SiCOI) Film Market

The growing adoption of electric vehicles is expected to propel the growth of the SiC-on-Insulator (SiCOI) film market going forward. Electric vehicles (EVs) refer to automobiles powered by electricity stored in batteries or fuel cells rather than traditional internal combustion engines. EV adoption is rising due to increased environmental awareness, advancements in battery technology, and supportive government policies. SiC-on-Insulator (SiCOI) films are beneficial in electric vehicles for enhancing power electronics efficiency and reliability, thus extending battery life and improving overall vehicle performance.

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Major Players And Market Trends

Key players in the SiC-on-Insulator (SiCOI) film market include Hitachi Power Semiconductor Device Ltd., Nippon Steel Corporation, Sumitomo Electric Industries Ltd., Mitsubishi Electric Corporation, Micron Technology.

Major companies operating in the SiC-on-Insulator (SiCOI) film market are focusing on technological advancements such as improving film quality, enhancing thermal conductivity, and developing more efficient manufacturing processes to gain a competitive edge. Enhanced high-temperature performance in SiCOI films allows for more efficient and reliable operations in extreme conditions, making them ideal for applications in the automotive and aerospace industries.

Segments:

- 1) By Substrate: Silicon (Si) Substrate, Silicon Carbide (SiC) Substrate, Sapphire Substrate, Other Substrates
- 2) By Technology Route: Smart Cut Technology, Grinding Or Polishing Or Bonding Technology
- 3) By Wafer Size: 100 MM (4-Inch) Wafers, 150 MM (6-Inch) Wafers, 200 MM (8-Inch) Wafers, 300 MM (12-Inch) Wafers
- 4) By Application: Power Electronics, Aerospace and Defense, Automotive, Consumer Electronics, Others Applications

Geographical Insights: North America Leading The Market

North America was the largest region in the SiC-on-insulator (SiCOI) film market in 2023. The regions covered in the sic-on-insulator (SiCOI) film market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

SiC-On-Insulator (SiCOI) Film Market Definition

Silicon carbide (SiC)-on-insulator film is a semiconductor structure where a thin layer of silicon carbide (SiC) is deposited on an insulating substrate, typically silicon dioxide (SiO₂). This configuration combines the high thermal conductivity and electronic properties of SiC with the electrical isolation benefits of the insulator, making it advantageous for high-power, high-

temperature, and high-frequency applications. SiCOI technology aims to enhance device performance while reducing power consumption and heat dissipation.

SiC-On-Insulator (SiCOI) Film Global Market Report 2024 from [The Business Research Company](#) covers the following information:

- Market size data for the forecast period: Historical and Future
- Market analysis by region: Asia-Pacific, China, Western Europe, Eastern Europe, North America, USA, South America, Middle East and Africa.
- Market analysis by countries: Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA.

Trends, opportunities, strategies and so much more.

The SiC-On-Insulator (SiCOI) Film Global Market Report 2024 by The Business Research Company is the most comprehensive report that provides insights on [SiC-on-Insulator \(SiCOI\) film market size](#), SiC-on-Insulator (SiCOI) film market drivers and trends, SiC-on-Insulator (SiCOI) film market major players, SiC-on-Insulator (SiCOI) film competitors' revenues, SiC-on-Insulator (SiCOI) film market positioning, and SiC-on-Insulator (SiCOI) film market growth across geographies. The SiC-on-Insulator (SiCOI) film market report helps you gain in-depth insights into opportunities and strategies. Companies can leverage the data in the report and tap into segments with the highest growth potential.

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About The Business Research Company

The Business Research Company has published over 15000+ reports in 27 industries, spanning 60+ geographies. The reports draw on 1,500,000 datasets, extensive secondary research, and exclusive insights from interviews with industry leaders.

Global Market Model – Market Intelligence Database

The Global Market Model, The Business Research Company's flagship product, is a market intelligence platform covering various macroeconomic indicators and metrics across 60 geographies and 27 industries. The Global Market Model covers multi-layered datasets that help its users assess supply-demand gaps.

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