



It is extensively utilized in applications such as abrasives, coatings, and progressive ceramics”

Polaris Market Research

Silicon carbide itself is a compound of silicon and carbon acknowledged for its elevated toughness, thermal conductivity, and aversion to abrasion and corrosion. Manufacturers are seeking more productive and resistant substances for grinding, cutting, and polishing applications, pushing the spherical silicon carbide market demand.

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Growing Research and Development: Growing research and development ventures targeted at traversing contemporary applications and improving substance attributes along with industries funding in R&D, progressions in production methodologies and expression being discerned causing enhanced performance attributes is boosting the demand for spherical silicon carbide market growth.

Escalating Government Funding in Semiconductor Manufacturing: The market is witnessing upward momentum due to growing government funding in semiconductor manufacturing. For instance, as per the India Brand Equity Foundation, India instigated the Semicon India Program in December 2021, issuing roughly USD 9.2 million to improve its semiconductor and disposing manufacturing habitat.

Surging Demand for Electric Vehicles: The market is encountering growth due to the growing demand for electric vehicles. For instance, as per the International Energy Agency, the sales of electric cars touched 16 million units per year in 2023, up from just 0.2 million in 2012.

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- Fujimi Corporation
- Shin-Etsu Chemical
- Heeger Materials Inc.
- Matrix Solution India
- Stanford Advanced Materials

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- The spherical silicon carbide market is based on product, application, and region.
- By product analysis, the below 30.0 μm segment held the largest market share. This is due to growing applications in progressive materials and electronics.

- By application analysis, the coating segment is poised to register a significant CAGR. This is due to its substantial applications covering industries such as automotive and aerospace.

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The research report covers all the major regions and sub-regions of the spherical silicon carbide market. The study provides market insights into North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa.

North America: North America accounted for the largest market share. This is primarily because of the growing demand for electric and hybrid vehicles.

Asia Pacific: Asia Pacific is anticipated to witness the fastest CAGR from 2025 to 2034. The region's augmentation of renewable energy plants, which has pushed the demand for electronic parts, fuels the regional market expansion.

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Which region held the largest spherical silicon carbide market share?

North America had the largest share of the global market in 2024.

Which product segment is expected to experience significant growth with a high CAGR from 2025 to 2034 in the spherical silicon carbide market?

The below 30.0 μm segment is anticipated to experience substantial growth with a significant CAGR during the forecast period.

What is the forecast period of the market?

The forecast period of the market is 2025-2034.

What is the regional scope of the market?

The market covers regions such as North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa.

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