

Global Aluminum Silicon Carbide (AlSiC) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Aluminum Silicon Carbide (AlSiC) market size was valued at USD 160.6 million in 2023 and is forecast to a readjusted size of USD 492.6 million by 2030 with a CAGR of 17.4% during review period.

Aluminum silicon carbide is a composite material of metal and ceramic. AlSiC (aluminum silicon carbide) is the abbreviation of aluminum-based silicon carbide ceramic particle reinforced composite material. The properties of AlSiC mainly depend on the volume fraction (content), distribution and particle size of SiC, as well as the Al alloy composition. According to the ratio of the two phases or the heat treatment state of the composite material, the thermophysical and mechanical properties of the material can be designed to meet various performance requirements of chip packaging. Aluminum silicon carbide composites have excellent mechanical and physical properties, and are widely used in aerospace and military, rail transit and automotive, electronics, military and other fields.

Global key players of aluminum silicon carbide (AlSiC) include Denka, CPS Technologies, Materion, Sumitomo Electric, Ametek Specially Metal Products, etc. The top five players hold a share about 76%. Japan is the largest producer, has a share about 56%, followed by North America and China, with share 26% and 10%, respectively. The largest market is Asia-Pacific, with a share about 52%, followed by North America and Europe, with share 29% and 15%, separately.

The Global Info Research report includes an overview of the development of the Aluminum Silicon Carbide (AlSiC) industry chain, the market status of Semiconductor

(5%-30%, 35%-50%), Aerospace and Military (5%-30%, 35%-50%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Aluminum Silicon Carbide (AlSiC).

Regionally, the report analyzes the Aluminum Silicon Carbide (AlSiC) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Aluminum Silicon Carbide (AlSiC) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Aluminum Silicon Carbide (AlSiC) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Aluminum Silicon Carbide (AlSiC) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by SiC Volume Fraction (e.g., 5%-30%, 35%-50%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Aluminum Silicon Carbide (AlSiC) market.

Regional Analysis: The report involves examining the Aluminum Silicon Carbide (AlSiC) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Aluminum Silicon Carbide (AlSiC) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Aluminum Silicon Carbide (AlSiC):

Company Analysis: Report covers individual Aluminum Silicon Carbide (AlSiC) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Aluminum Silicon Carbide (AlSiC). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Semiconductor, Aerospace and Military).

Technology Analysis: Report covers specific technologies relevant to Aluminum Silicon Carbide (AlSiC). It assesses the current state, advancements, and potential future developments in Aluminum Silicon Carbide (AlSiC) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Aluminum Silicon Carbide (AlSiC) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Aluminum Silicon Carbide (AlSiC) market is split by SiC Volume Fraction and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by SiC Volume Fraction, and by Application in terms of volume and value.

Market segment by SiC Volume Fraction

5%-30%

35%-50%

55%-70%

Market segment by Application

Semiconductor

Aerospace and Military

Rail Transit and Automotive

5G

Other

Major players covered

Denka

CPS Technologies

Materion

DWA Aluminum Composites

Ametek Specially Metal Products

Japan Fine Ceramics

Sumitomo Electric

Ferrotec

Ceramtec

Advanced Cooling Technologies

Thermal Transfer Composites

Hunan Harvest

Beijing Baohang Advanced Materials

Minco Xi'an Microelectronics Materials

Hunan Everrich Composite

Fadi Technology

Suzhou Han Qi Aviation Technology

Hunan Wenchang New Material Technology

Jilin Nstar Metallic Materials

Anhui Xiangbang Composite Materials

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aluminum Silicon Carbide (AlSiC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminum Silicon Carbide (AlSiC), with price, sales, revenue and global market share of Aluminum Silicon Carbide (AlSiC) from 2019 to 2024.

Chapter 3, the Aluminum Silicon Carbide (AlSiC) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aluminum Silicon Carbide (AlSiC) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by SiC Volume Fraction and application, with sales market share and growth rate by sic volume fraction, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Aluminum Silicon Carbide (AlSiC) market forecast, by regions, sic volume fraction and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aluminum Silicon Carbide (AlSiC).

Chapter 14 and 15, to describe Aluminum Silicon Carbide (AlSiC) sales channel, distributors, customers, research findings and conclusion.

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