

Global AlSiC Structural Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G811149D8B8EEN.html>

Date: January 2026

Pages: 104

Price: US\$ 3,480.00 (Single User License)

ID: G811149D8B8EEN

Abstracts

According to our (Global Info Research) latest study, the global AlSiC Structural Components market size was valued at US\$ 33.97 million in 2025 and is forecast to a readjusted size of US\$ 84.05 million by 2032 with a CAGR of 12.8% during review period.

In 2025, global production of AlSiC Structural Components reached 60.14 metric tons. The global average market price was approximately USD 548.9 per kilogram, while total installed production capacity was around 100 metric tons. The industry's average gross margin stood at 22.36%.

Aluminum-silicon carbide structural components refer to parts manufactured from AlSiC metal matrix composites (MMCs) using processes such as casting, powder metallurgy, and precision machining. In these composites, aluminum or aluminum alloys serve as the matrix, while silicon carbide particles or fibers act as the reinforcement. This combination preserves aluminum's lightweight nature and good machinability while significantly enhancing stiffness and strength. At the same time, it offers low thermal expansion, high thermal conductivity, corrosion resistance, and excellent dimensional stability.

Within these components, AlSiC materials not only provide mechanical support and precise positioning, ensuring accurate assembly and structural integrity, but also enable efficient thermal management by balancing thermal expansion compatibility with heat dissipation requirements. Compared with conventional aluminum or steel structural parts, AlSiC Structural Components offer clear advantages in lightweight design, high rigidity, and tunable thermo-mechanical properties. As a result, they are particularly well

suited for aerospace and defense applications, where strict requirements on thermal expansion control, dimensional accuracy, and thermal conductivity must be met.

Fundamentally, AlSiC Structural Components are multifunctional thermo-mechanical parts. By integrating the composite characteristics of advanced materials with optimized structural design, they achieve synergistic performance in both structural support and thermal management.

Key upstream raw materials include silicon carbide, aluminum, and aluminum alloys.

Major upstream suppliers include Nanomakers, Washington Mills, Fiven, Stanford Advanced Materials, Wolfspeed, Coherent, SK Siltron, SiCrystal, SICC, Synlight Semiconductor, and Shanxi Semisic Crystal.

Major downstream customers include NASA, the European Space Agency (ESA), BAE Systems, Thales Group, Korea Aerospace Industries, Mitsubishi Heavy Industries, CASC, and AVIC.

AlSiC Structural Components, characterized by their high specific stiffness, low density, low coefficient of thermal expansion, and excellent wear resistance, have become irreplaceable core structural materials in the aerospace, defense, and high-end equipment manufacturing sectors. Compared with conventional aluminum alloys and steel, these composite materials maintain lightweight advantages while delivering outstanding dimensional stability and mechanical performance under severe thermal cycling and complex load conditions. This enables them to meet the stringent requirements for structural reliability and long-term service performance in precision equipment, making them increasingly the material of choice for critical applications such as satellite platforms, guidance and control systems, optical payload supports, and high-power electronic modules.

The aerospace and defense sectors remain the primary driving forces of market growth. With the rising number of satellite launches, the continuous development of next-generation guidance and control systems and high-precision weapons platforms, and the growing demand for lightweight, high-precision structural components in aerospace and military equipment, the industry is demonstrating a long-term and stable growth trajectory. At the same time, the semiconductor manufacturing equipment and high-power electronics sectors impose extremely strict requirements on thermal expansion control, heat dissipation performance, and dimensional accuracy, creating new

application opportunities for AISiC Structural Components and further promote market demand toward high-end and precision-oriented applications.

AISiC Structural Components are exhibiting a clear trend toward high precision and customization. By optimizing silicon carbide particle content, size distribution, and interfacial bonding technologies?combined with advanced manufacturing processes such as stir casting, powder metallurgy, and pressure infiltration?the mechanical properties and thermal stability of these materials have been significantly enhanced. Meanwhile, advances in CNC machining, ultra-precision grinding, and surface treatment technologies have enabled the mass production of complex geometries and high-precision components. This provides strong technical support for the reliable deployment of high-end equipment and is driving the industry?s gradual transition from small-batch customization toward scaled manufacturing.

Despite the promising outlook, the industry faces several challenges. Silicon carbide raw materials remain expensive, tooling wear during machining is severe, and manufacturing processes are complex with limited standardization, resulting in high initial capital investment and difficulties in maintaining stable production yields. In addition, applications in aerospace and defense require long validation cycles and rigorous reliability testing, which significantly increase R&D costs and raise technical and financial barriers for new market entrants. To some extent, these factors constrain rapid market penetration while reinforcing the competitive advantages of established industry leaders.

Overall, the AISiC Structural Components industry is at a stage where technological maturity and rapid market expansion are occurring simultaneously. Companies with advanced manufacturing processes, strong R&D capabilities, and customized solution offerings are well positioned to gain significant competitive advantages. Looking ahead, with continued optimization of fabrication and machining technologies, sustained growth in downstream demand for high-end equipment, and the combined momentum of domestic substitution and policy support, the AISiC Structural Components market is expected to achieve sustained and scalable growth. It will occupy an increasingly important strategic position in aerospace, defense, semiconductors, and high-end equipment manufacturing, providing critical material support for the development of these industries.

This report is a detailed and comprehensive analysis for global AISiC Structural Components market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AISiC Structural Components market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AISiC Structural Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AISiC Structural Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AISiC Structural Components market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AISiC Structural Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AISiC Structural Components market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CPS Technologies, Grimm Metal Composites (Beijing) Technology, Materion, Zhongke Composite, Beijing Baohang Advanced Materials, Xi'an Miqam Microelectronics Materials, DWA Aluminum

Composites USA, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AlSiC Structural Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SiC (15-30)

SiC (30-40)

SiC (40-60)

Others

Market segment by Enhanced Phase Particle Size

Micron-sized SiC

Submicron-sized SiC

Nano-sized SiC

Market segment by Matrix Alloy

Pure Aluminum

Al-Si Series

Others

Market segment by Application

Aerospace and Defense

Precision Machinery

Nuclear Power

Others

Major players covered

CPS Technologies

Grim Metal Composites (Beijing) Technolgy

Materion

Zhongke Composite

Beijing Baohang Advanced Materials

Xi'an Miqam Microelectronics Materials

DWA Aluminum Composites USA

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 AISiC Structural Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AISiC Structural Components, with price, sales quantity, revenue, and global market share of AISiC Structural Components from 2021 to 2026.

Chapter 3, the AISiC Structural Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AISiC Structural Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and AISiC Structural Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 AISiC Structural Components.

Chapter 14 and 15, to describe AISiC Structural Components sales channel, distributors, customers, research findings and conclusion.

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