

# Global AlSiC Structural Components Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AlSiC Structural Components market size is expected to reach \$ 84.05 million by 2032, rising at a market growth of 12.8% CAGR during the forecast period (2026-2032).

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 AlSiC Structural Components and further promote market demand toward high-end and precision-oriented applications.

AlSiC 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 studies the global AISiC Structural Components production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AISiC Structural Components and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AISiC Structural Components that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global AISiC Structural Components total production and demand, 2021-2032, (Tons)

Global AISiC Structural Components total production value, 2021-2032, (USD Million)

Global AISiC Structural Components production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global AISiC Structural Components consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: AISiC Structural Components domestic production, consumption, key domestic manufacturers and share

Global AISiC Structural Components production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global AISiC Structural Components production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

Global AISiC Structural Components production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global AISiC Structural Components market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CPS Technologies, Grinm 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AISiC Structural Components market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AISiC Structural Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global AlSiC Structural Components Market, Segmentation by Type:

SiC (15-30)

SiC (30-40)

SiC (40-60)

Others

### Global AlSiC Structural Components Market, Segmentation by Enhanced Phase Particle Size:

Micron-sized SiC

Submicron-sized SiC

Nano-sized SiC

### Global AlSiC Structural Components Market, Segmentation by Matrix Alloy:

Pure Aluminum

Al-Si Series

Others

### Global AlSiC Structural Components Market, Segmentation by Application:

Aerospace and Defense

Precision Machinery

Nuclear Power

Others

**Companies Profiled:**

CPS Technologies

Grim Metal Composites (Beijing) Technolgy

Materion

Zhongke Composite

Beijing Baohang Advanced Materials

Xi'an Miqam Microelectronics Materials

DWA Aluminum Composites USA

**Key Questions Answered:**

1. How big is the global AlSiC Structural Components market?
2. What is the demand of the global AlSiC Structural Components market?
3. What is the year over year growth of the global AlSiC Structural Components market?
4. What is the production and production value of the global AlSiC Structural Components market?
5. Who are the key producers in the global AlSiC Structural Components market?
6. What are the growth factors driving the market demand?

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