

Global Aluminium Carbide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminium Carbide market size is expected to reach \$ 33.49 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Aluminium Carbide (Al_2C_3) is a grayish-yellow crystalline inorganic compound produced by reacting aluminum metal with carbon sources such as petroleum coke, graphite, or carbon black at high temperatures (typically above 1,000°C). It is valued for its role as a precursor in specialty chemical synthesis, methane generation through hydrolysis, ceramic and refractory materials, metal matrix composites, and certain metallurgical applications. The Aluminium Carbide supply chain begins with upstream raw materials including aluminum ingots, aluminum powder, and carbon materials, along with energy-intensive furnace operations. Midstream manufacturing involves carbothermal synthesis, purification, milling, grading, and packaging of Aluminium Carbide powders or granules according to purity and particle-size specifications. Downstream users include ceramic manufacturers, advanced materials producers, metallurgical companies, research laboratories, semiconductor material developers, and specialty chemical producers, where Aluminium Carbide is utilized as a carbide additive, reinforcing phase, reducing agent, or intermediate for producing methane and other carbon-containing compounds. In 2025, global Aluminium Carbide output was about 3,000 tons with 4,000 tons of capacity, average prices of USD 6,000-17,000 per ton, and gross margins around 29%.

This report studies the global Aluminium Carbide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminium Carbide 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 Aluminium Carbide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminium Carbide total production and demand, 2021-2032, (Tons)

Global Aluminium Carbide total production value, 2021-2032, (USD Million)

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

Global Aluminium Carbide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Aluminium Carbide domestic production, consumption, key domestic manufacturers and share

Global Aluminium Carbide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Aluminium Carbide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Aluminium Carbide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Aluminium Carbide 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 NanoAmor (USA), American Elements (USA), US Research Nanomaterials (USA), Inframat Advanced Materials (USA), SkySpring Nanomaterials (USA), Nanoshel (India), Sinochem Nanjing (China), Baoji Kedipu New Materials (China), Xi'an Function Material (China), Luoyang Tongrun Nano Technology (China), 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 Aluminium Carbide 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 Aluminium Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminium Carbide Market, Segmentation by Type:

Industrial Grade (85-99%)

High-Purity Grade (>99%)

Global Aluminium Carbide Market, Segmentation by Carbon Content:

5 wt%

Global Aluminium Carbide Market, Segmentation by Application:

Automotive

Aerospace & Defense

Electronic & Semiconductor

Others

Companies Profiled:

NanoAmor (USA)

American Elements (USA)

US Research Nanomaterials (USA)

Inframat Advanced Materials (USA)

SkySpring Nanomaterials (USA)

Nanoshel (India)

Sinochem Nanjing (China)

Baoji Kedipu New Materials (China)

Xi'an Function Material (China)

Luoyang Tongrun Nano Technology (China)

Key Questions Answered:

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

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