

Global Aluminium Carbide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G9DFCDED9407EN.html>

Date: July 2026

Pages: 93

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

ID: G9DFCDED9407EN

Abstracts

According to our (Global Info Research) latest study, the global Aluminium Carbide market size was valued at US\$ 22.64 million in 2025 and is forecast to a readjusted size of US\$ 33.49 million by 2032 with a CAGR of 6.0% during review period.

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 $1,000^{\circ}C$). 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 is a detailed and comprehensive analysis for global Aluminium Carbide 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 Aluminium Carbide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global Aluminium Carbide 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 Aluminium Carbide 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 Aluminium Carbide

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 Aluminium Carbide 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 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.

Market Segmentation

Aluminium Carbide 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

Industrial Grade (85-99%)

High-Purity Grade (>99%)

Market segment by Carbon Content

5 wt%

Market segment by Application

Automotive

Aerospace & Defense

Electronic & Semiconductor

Others

Major players covered

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)

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 Aluminium Carbide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminium Carbide, with price,

sales quantity, revenue, and global market share of Aluminium Carbide from 2021 to 2026.

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

Chapter 4, the Aluminium Carbide 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 Aluminium Carbide 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 Aluminium Carbide.

Chapter 14 and 15, to describe Aluminium Carbide sales channel, distributors, customers, research findings and conclusion.

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