

Global Aluminum Boron Alloy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminum Boron Alloy market size is expected to reach \$ 141 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Aluminum boron alloy is an alloy product widely used in the metallurgical and materials industries. Composed primarily of aluminum and boron, it typically contains between 2% and 5% boron (e.g., AlB₃, AlB₅). Classified as a master alloy, it is specifically designed to introduce alloying elements into molten metal or to adjust the composition of the melt.

Upstream inputs primarily include primary aluminum (electrolytic aluminum), aluminum ingots, molten aluminum, boron source materials (such as fluoroborates, boron powder, and borates), fluxes, and casting auxiliaries. The aluminum matrix determines the alloy's purity and impurity levels, while the boron source dictates the stability of the boron content, the morphology of AlB₃/AlB₅ phases, and the recovery rate upon addition. Industrial production typically involves reacting molten aluminum with boron-bearing raw materials, followed by melting, refining, and casting to produce master alloy ingots or waffle ingots.

In 2025, global sales volume is approximately 22,000 metric tons, the global average market price is around US\$4,500 per metric ton, and the gross profit margin for major manufacturers ranges from approximately 15% to 28%.

The aluminum boron alloy industry constitutes a specialized niche within the broader category of aluminum-based master alloys; demand is primarily driven by growth in sectors such as electrical-grade aluminum, aluminum rod and wire, aluminum alloy smelting, and high-end aluminum processing. Its core value lies in the controlled addition of boron to mitigate the adverse effects of impurities such as titanium,

vanadium, chromium, and zirconium on aluminum's electrical conductivity; consequently, demand is largely propelled by power grid infrastructure, new energy power transmission, the adoption of lightweight aluminum conductors, and the need for high-conductivity aluminum materials. Industry challenges stem primarily from relatively low consumption volumes, stringent downstream requirements regarding boron content stability and impurity control, price volatility of primary aluminum and boron sources, and potential market substitution by aluminum-titanium-boron alloys, refining agents, or other aluminum-based master alloys. Looking ahead, however, aluminum-boron alloys are expected to maintain steady demand in applications involving electrical-grade aluminum, aluminum conductors, the modification of aluminum-silicon alloys, and the processing of high-purity aluminum.

This report studies the global Aluminum Boron Alloy production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Aluminum Boron Alloy total production and demand, 2021-2032, (K MT)

Global Aluminum Boron Alloy total production value, 2021-2032, (USD Million)

Global Aluminum Boron Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Aluminum Boron Alloy consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Aluminum Boron Alloy domestic production, consumption, key domestic manufacturers and share

Global Aluminum Boron Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Aluminum Boron Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Aluminum Boron Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Aluminum Boron Alloy 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 AMG Aluminum, KBM Affilips, Minex Metallurgical, Ceraflux, Milward Alloys, Belmont Metals, Lizhong Group, Shenzhen Sunxing Light Alloys, DONGSHENG, Shandong Binzhou Huachuang Metal, 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 Aluminum Boron Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Aluminum Boron Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum Boron Alloy Market, Segmentation by Type:

AIB3

AIB4

AIB5

AIB6

Other

Global Aluminum Boron Alloy Market, Segmentation by Form:

Lump/Ingot

Wire

Global Aluminum Boron Alloy Market, Segmentation by Boride Phase:

Alb2-Type

Alb12-Type

Global Aluminum Boron Alloy Market, Segmentation by Application:

Electrical-Grade Aluminum

Wires and Cables

Aluminum Sheets & Strips & Foils

Others

Companies Profiled:

AMG Aluminum

KBM Affilips

Minex Metallurgical

Ceraflux

Milward Alloys

Belmont Metals

Lizhong Group

Shenzhen Sunxing Light Alloys

DONGSHENG

Shandong Binzhou Huachuang Metal

Sichuan Lande

Fujian Zhangping Jiuding Fluorochemical

Key Questions Answered:

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

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