

# Global Aluminium-Titanium-Boron Grain Refiner Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Aluminium-Titanium-Boron Grain Refiner market size is expected to reach \$ 897 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Aluminum-Titanium-Boron (Al-Ti-B) grain refiners are the most widely used and effective additives in the processing of aluminum and aluminum alloys. They primarily consist of titanium-aluminum intermetallic compounds and borides dispersed within an aluminum matrix. Adding this refiner during the melting and casting of aluminum alloys significantly improves the solidified microstructure and helps prevent casting defects.

Upstream inputs primarily include electrolytic aluminum (or aluminum ingots/molten aluminum), titanium sources, boron sources, and fluoride-based reaction raw materials. Aluminum serves as the matrix material and determines the product's base cost; titanium sources?such as titanium sponge, titanium additives, or titanium-bearing fluoride salts?are used to form titanium-containing phases like Al?Ti; boron sources, typically boron-bearing salts or boride systems, facilitate the formation of TiB? nucleating particles; and salts such as potassium fluorotitanate and potassium fluoroborate are commonly used in specific 'salt-reaction' manufacturing processes. The midstream sector involves the smelting, reaction, casting, and subsequent processing (rolling or extrusion into rods, followed by cutting, or casting into ingots) of Al-Ti-B master alloys. The downstream market primarily serves aluminum processing plants, foundries, producers of aluminum sheet, strip, and foil, aluminum profile manufacturers, and recycled aluminum enterprises, where the product is used for the in-line grain refinement of molten aluminum.

In 2025, the sales volume of Al-Ti-B grain refiners is projected to reach approximately

180,000 tons, with a global average market price of around \$3,700 per ton; leading manufacturers in the industry typically achieve gross profit margins in the range of 10% to 20%.

Demand for Aluminium-Titanium-Boron Grain Refiner is primarily driven by the growth in aluminum processing and alloy casting volumes?particularly in sectors such as lightweighting for new energy vehicles, photovoltaic mounting systems, packaging foil, high-end sheet and strip products, industrial profiles, and electrical aluminum wire rods. As these refiners promote the formation of fine equiaxed grains during the solidification of molten aluminum?thereby reducing columnar grain growth, hot cracking, and microstructural non-uniformity while enhancing cast billet quality and the stability of downstream rolling, extrusion, and drawing processes?they constitute an essential functional additive in aluminum production. While the industry's overall growth rate is expected to remain steady rather than explosive, the product mix will shift toward offerings characterized by low impurity levels, high consistency, and high refining efficiency, as well as suitability for continuous online wire feeding. Leading enterprises will continue to expand their market share by leveraging advantages in economies of scale, process control, and customer certification, resulting in a market landscape defined by intense competition in the low-end segment and increasing concentration in the high-end segment.

This report studies the global Aluminium-Titanium-Boron Grain Refiner production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Aluminium-Titanium-Boron Grain Refiner total production and demand, 2021-2032, (Kiloton)

Global Aluminium-Titanium-Boron Grain Refiner total production value, 2021-2032, (USD Million)

Global Aluminium-Titanium-Boron Grain Refiner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global Aluminium-Titanium-Boron Grain Refiner consumption by region & country,

CAGR, 2021-2032 & (Kiloton)

U.S. VS China: Aluminium-Titanium-Boron Grain Refiner domestic production, consumption, key domestic manufacturers and share

Global Aluminium-Titanium-Boron Grain Refiner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global Aluminium-Titanium-Boron Grain Refiner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global Aluminium-Titanium-Boron Grain Refiner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global Aluminium-Titanium-Boron Grain Refiner 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, Aleastur, Pyrotek, Minex Metallurgical, Ceraflux, Milward Alloys, Shenzhen Sunxing Light Alloys Materials, Lizhong Group, Harbin Dongsheng Metal Materials, 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-Titanium-Boron Grain Refiner market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) 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-Titanium-Boron Grain Refiner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Aluminium-Titanium-Boron Grain Refiner Market, Segmentation by Type:

AlTiB5/1

AlTiB3/1

AlTiB5/0.2

Others

#### Global Aluminium-Titanium-Boron Grain Refiner Market, Segmentation by Product Form:

Wire

Lump/Block

Rod/Bar

Other

#### Global Aluminium-Titanium-Boron Grain Refiner Market, Segmentation by Performance Grade:

Standard Grade

High-Purity Grade

Global Aluminium-Titanium-Boron Grain Refiner Market, Segmentation by Application:

Aluminum Plates

Aluminum Strips

Aluminum Profiles

Aluminum Foils

Aluminum Cans

Others

Companies Profiled:

AMG Aluminum

KBM Affilips

Aleatur

Pyrotek

Minex Metallurgical

Ceraflux

Milward Alloys

Shenzhen Sunxing Light Alloys Materials

Lizhong Group

Harbin Dongsheng Metal Materials

Shandong Binzhou Huachuang Metal

Sichuan Lande High-Tech Industry

Key Questions Answered:

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

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