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

https://marketpublishers.com/r/GB33ED30926EEN.html
Date: September 2026
Pages: 127
Price: US$ 4,480.00 (Single User License)
ID: GB33ED30926EEN

Abstracts

The global Iron Aluminum Alloy market size is expected to reach $ 1480 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of iron-aluminum alloy reached 38,000 metric tons, with an average price of $25,362 per metric ton.

Iron-aluminum alloy is a soft magnetic metal material based on iron (Fe) with aluminum (Al) as the primary alloying element; typical aluminum content ranges from 6% to 16%. As a member of the soft magnetic alloy family, it is characterized by low coercivity, relatively high magnetic permeability and electrical resistivity, high hardness, and good wear resistance; however, brittleness increases significantly when the aluminum content exceeds 10%.

The raw materials primarily consist of industrial pure iron (or low-carbon steel) and aluminum ingots, supplemented by trace amounts of elements such as silicon and manganese for compositional fine-tuning. Typical chemical composition requirements specify carbon ?0.03%, phosphorus ?0.015%, and sulfur ?0.015%, with aluminum content precisely controlled within a ±0.4% range depending on the grade. Due to the high aluminum content and strict compositional precision requirements, aluminum ingots account for approximately 30%–40% of raw material costs, while industrial pure iron accounts for about 25%–35%. Regarding production, the alloy undergoes complex processes such as vacuum induction melting, hot or warm rolling, multi-stage annealing, and magnetic field heat treatment. Higher aluminum content increases brittleness, processing difficulty, and scrap rates; consequently, processing and manufacturing costs can constitute 40%–50% of the total cost—far higher than that of ordinary silicon steel or structural steel. Furthermore, high-grade products (such as 1J16) demand

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exceptional consistency in magnetic properties, necessitating comprehensive magnetic testing and precision sorting, which further drives up quality-related costs. Overall, the cost structure of iron-aluminum alloys is characterized by raw materials accounting for over half of the cost, significant processing expenses, and a distinct quality premium. Their economic advantage lies primarily in their ability to replace certain expensive nickel-iron Permalloy grades (such as 1J46), offering a cost-effective "aluminum-for-nickel" soft magnetic solution.

Report Scope

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

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

Highlights and key features of the study

Global Iron Aluminum Alloy total production and demand, 2021-2032, (Kilotons)

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

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

Global Iron Aluminum Alloy consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

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Global Iron Aluminum Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Iron Aluminum Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Iron Aluminum 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 American Elements, ATT Advanced Elemental Materials, Reade International, Belmont Metals, Avon Metals, Jayesh Group, JK Ferro Alloys, Sheffield Alloys & Metals, Cometal S.A., Phoolchand Bhagatsingh, 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 Iron Aluminum Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) 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 Iron Aluminum Alloy Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Iron Aluminum Alloy Market, Segmentation by Type:

1J6

1J12

1J16

Others

Global Iron Aluminum Alloy Market, Segmentation by Aluminum Content:

Low-aluminum Type (6%–10%)

Medium-aluminum Type (10%–13%)

High-aluminum Type (13%–16%)

Global Iron Aluminum Alloy Market, Segmentation by Operating Frequency Range:

Low Frequency

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Medium Frequency

High Frequency

Global Iron Aluminum Alloy Market, Segmentation by Application:

Electromagnetic Components

Magnetic Head Cores

Transducers

Frequency Converters

Others

Companies Profiled:

American Elements

ATT Advanced Elemental Materials

Reade International

Belmont Metals

Avon Metals

Jayesh Group

JK Ferro Alloys

Sheffield Alloys & Metals

Cometal S.A.

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Phoolchand Bhagatsingh

Alpha Metals S.A.S.

KOBELCO

Dongbei Special Steel

Magnetics

Zhejiang NBTM Keda Magnetoelectricity

Key Questions Answered:

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

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