

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

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Abstracts

The global Cobalt Iron Boron Alloy market size is expected to reach \$ 2799 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global Cobalt Iron Boron Alloy production reached approximately 227 tons, with an average global market price of around US\$6k per kg.

Cobalt-Iron-Boron Alloy (Co-Fe-B) is a functional magnetic alloy composed primarily of cobalt (Co), iron (Fe), and boron (B), offering a combination of high magnetic permeability, excellent soft magnetic properties, good thermal stability, and low magnetic loss characteristics. These materials are commonly produced in the form of amorphous or nanocrystalline thin films, magnetic coatings, and sputtering targets, and are widely used in magnetic sensors, spintronic devices, Magnetic Random Access Memory (MRAM), Magnetic Tunnel Junctions (MTJs), high-frequency electronic components, and advanced semiconductor manufacturing applications. Co-Fe-B alloys exhibit high spin polarization and excellent tunability of magnetic anisotropy, making them one of the most important magnetic material systems in modern magnetic storage and spintronics technologies. With the rapid development of artificial intelligence, high-performance computing, data centers, and next-generation memory technologies, demand for high-performance Co-Fe-B materials continues to increase, further strengthening their strategic importance within the advanced electronics industry.

The upstream segment of the Co-Fe-B alloy industry includes suppliers of cobalt, iron, boron, and high-purity metallic materials. Representative cobalt suppliers include Glencore, CMOC Group, and Eurasian Resources Group. High-purity metals and sputtering target suppliers include JX Advanced Metals, Honeywell, and Materion. The midstream sector consists of Co-Fe-B sputtering target manufacturers, thin-film material

suppliers, and magnetic functional material producers. Downstream applications are concentrated in MRAM, spintronic devices, magnetic tunnel junctions (MTJs), magnetic sensors, HDD read heads, and advanced semiconductor manufacturing. Representative end users include Samsung Electronics, TSMC, Intel, Micron Technology, and Western Digital. Co-Fe-B alloys occupy a critical position in the advanced magnetic materials and semiconductor supply chain, where material performance directly affects device functionality and reliability.

The Co-Fe-B alloy market represents an important segment of advanced magnetic materials and semiconductor materials, with demand driven by MRAM, spintronic devices, artificial intelligence computing, high-performance storage technologies, and advanced semiconductor manufacturing. As data centers, edge computing, and next-generation memory architectures continue to evolve, demand for high-purity, high-magnetic-performance, and highly consistent Co-Fe-B materials continues to increase. Future development is expected to focus on higher purity levels, lower defect density, higher spin polarization, and more advanced thin-film deposition technologies to support next-generation memory and logic devices. However, fluctuations in cobalt supply, raw material cost pressures, semiconductor industry cyclicity, and stringent qualification requirements from leading customers remain key challenges for market participants.

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

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

Highlights and key features of the study

Global Cobalt Iron Boron Alloy total production and demand, 2021-2032, (kg)

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

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

Global Cobalt Iron Boron Alloy consumption by region & country, CAGR, 2021-2032 & (kg)

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

Global Cobalt Iron Boron Alloy production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (kg)

Global Cobalt Iron Boron Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Cobalt Iron Boron Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Cobalt Iron 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 Jx Nippon Mining & Metals, Tosoh, Plansee SE, ALB Materials, Alfa Chemistry, Materion, Kurt J. Lesker, ATT Advanced Elemental Materials, VIMATERIAL, Ketai New 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 Cobalt Iron Boron Alloy market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cobalt Iron Boron Alloy Market, Segmentation by Type:

Co40Fe40B20

Co60Fe20B20

Co20Fe60B20

Others

Global Cobalt Iron Boron Alloy Market, Segmentation by Purity:

99.9%

99.99%

99.999%

Global Cobalt Iron Boron Alloy Market, Segmentation by Application:

Semiconductors

Sensors

Storage

Others

Companies Profiled:

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

Jx Nippon Mining & Metals

Tosoh

Plansee SE

ALB Materials

Alfa Chemistry

Materion

Kurt J. Lesker

ATT Advanced Elemental Materials

VIMATERIAL

Ketai New Materials

Xinkang Advanced Materials

Dream Material Technology

Funcmater

Maideli Advanced Material

Key Questions Answered:

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

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