

Global High Magnetic Induction Oriented Silicon Steel (Hi-B steel) Market Growth 2026-2032

<https://marketpublishers.com/r/G2F06D856256EN.html>

Date: July 2026

Pages: 102

Price: US\$ 3,660.00 (Single User License)

ID: G2F06D856256EN

Abstracts

The global High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

High magnetic induction oriented silicon steel (Hi-B steel) is a silicon steel material with excellent magnetic properties. It has high magnetic induction intensity and low iron loss under high magnetic field, which is its most significant feature. This excellent magnetic property enables Hi-B steel to convert and transmit electric energy more effectively in power equipment, thereby improving the efficiency and performance of the equipment. In the chemical composition of Hi-B steel, the carbon content is usually less than 0.005%, and the silicon content varies within a certain range, but is generally less than 4.5%. The addition of silicon can significantly increase the resistivity and magnetic permeability of the material and reduce iron loss. Due to its excellent magnetic properties, Hi-B steel is widely used in power transformers, motors, electromagnets and other fields. Especially in large power transformers, Hi-B steel as a core material can significantly reduce iron loss and noise, and improve the operating efficiency and stability of the transformer. The production process of Hi-B steel is relatively complex, and it is necessary to strictly control parameters such as chemical composition, hot rolling and cold rolling temperature, and annealing process. Among them, secondary recrystallization annealing is one of the key steps in producing Hi-B steel, through which an oriented structure with excellent magnetic properties can be obtained.

United States market for High Magnetic Induction Oriented Silicon Steel (Hi-B steel) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High Magnetic Induction Oriented Silicon Steel (Hi-B steel) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High Magnetic Induction Oriented Silicon Steel (Hi-B steel) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High Magnetic Induction Oriented Silicon Steel (Hi-B steel) players cover Baoshan Iron & Steel, Wuhan Iron and Steel, Shougang Group, Chongqing Wangbian Electric, Nippon Steel Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High Magnetic Induction Oriented Silicon Steel (Hi-B steel) Industry Forecast" looks at past sales and reviews total world High Magnetic Induction Oriented Silicon Steel (Hi-B steel) sales in 2025, providing a comprehensive analysis by region and market sector of projected High Magnetic Induction Oriented Silicon Steel (Hi-B steel) sales for 2026 through 2032. With High Magnetic Induction Oriented Silicon Steel (Hi-B steel) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Magnetic Induction Oriented Silicon Steel (Hi-B steel) industry.

This Insight Report provides a comprehensive analysis of the global High Magnetic Induction Oriented Silicon Steel (Hi-B steel) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High Magnetic Induction Oriented Silicon Steel (Hi-B steel) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Magnetic Induction Oriented Silicon Steel (Hi-B steel) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High Magnetic Induction Oriented Silicon Steel (Hi-B steel).

This report presents a comprehensive overview, market shares, and growth opportunities of High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Plate

Other

Segmentation by Application:

Electric Power Industry

Automotive Industry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Baoshan Iron & Steel

Wuhan Iron and Steel

Shougang Group

Chongqing Wangbian Electric

Nippon Steel Corporation

JFE Steel Corporation

POSCO

AK Steel Holding Corporation

ThyssenKrupp Steel Europe AG

ArcelorMittal

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market?

What factors are driving High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High Magnetic Induction Oriented Silicon Steel (Hi-B steel) market opportunities vary by end market size?

How does High Magnetic Induction Oriented Silicon Steel (Hi-B steel) break out by Type, by Application?

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