

Global Grain Oriented Electrical Steel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Grain Oriented Electrical Steel market size was valued at US\$ 9616 million in 2024 and is forecast to a readjusted size of USD 12960 million by 2031 with a CAGR of 4.4% during review period.

Electrical steel is an alloy that contains iron and silicon. It can be manufactured by modifying the magnetic properties of steel for efficient magnetism and electricity conversion. Also called silicon steel, lamination steel, relay steel or transformer steel, this type of steel is very often used to build the cores of transformers as well as the stators of generators and motors. An electrical steel sheet is a functional material used as an iron core material for electrical equipment. There are two types of electrical steel: grain oriented electrical steel and non-grain oriented electrical steel, and they are used for different applications. In this report we researched grain oriented electrical steel. Grain oriented electrical steels are iron-silicon magnetic alloys. These alloys are used to construct the cores of highly-efficient electric transformers due to their unique magnetic properties. Available in grades M-2, M-3, M-4, M-5 and M-6, with superior magnetic properties in the rolling direction, oriented steels are used in transformer cores. They are used in large generators and other apparatus when the design permits the directional magnetic characteristics to be used efficiently. Grain oriented electrical steel usually has a silicon level of 3%. It is processed in such a way that the optimal properties are developed in the rolling direction, due to a tight control (proposed by Norman P. Goss) of the crystal orientation relative to the sheet. Grain oriented electrical steels are usually applied in transformers, rectifiers and so on.

Global key players of Grain Oriented Electrical Steel include Baowu Group, Nippon

Steel, NLMK, Shougang, AK Steel (Cleveland-Cliffs), etc. The top five players hold a share about 59%. China is the largest market, and has a share about 59%, followed by Europe and Japan with share 16% and 13%, separately. In terms of product type, High Magnetic Strength is the largest segment, accounting for a share of 59%. In terms of application, Transformer is the largest field with a share about 91 percent.

This report is a detailed and comprehensive analysis for global Grain Oriented Electrical Steel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Grain Oriented Electrical Steel market size and forecasts, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Grain Oriented Electrical Steel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Grain Oriented Electrical Steel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Grain Oriented Electrical Steel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Grain Oriented Electrical Steel
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Grain Oriented Electrical Steel market based on the following parameters - company overview, sales quantity, revenue, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Baowu Group, Nippon Steel, NLMK, Shougang, AK Steel (Cleveland-Cliffs), ThyssenKrupp, Posco, JFE Steel, Stalprodukt S.A., Chongqing Wangbian, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Grain Oriented Electrical Steel market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High Magnetic Strength

Conventional

Market segment by Application

Transformer

Motor

Others

Major players covered

Baowu Group

Nippon Steel

NLMK

Shougang

AK Steel (Cleveland-Cliffs)

ThyssenKrupp

Posco

JFE Steel

Stalprodukt S.A.

Chongqing Wangbian

Baotou Weifeng

Zhejiang Huaying

Aperam

Wuxi Huajing

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Grain Oriented Electrical Steel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Grain Oriented Electrical Steel, with price, sales quantity, revenue, and global market share of Grain Oriented Electrical Steel from 2020 to 2025.

Chapter 3, the Grain Oriented Electrical Steel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Grain Oriented Electrical Steel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Grain Oriented Electrical Steel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Grain Oriented Electrical Steel.

Chapter 14 and 15, to describe Grain Oriented Electrical Steel sales channel, distributors, customers, research findings and conclusion.

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