

Global Grain Oriented Electrical Steel Sheet Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Grain Oriented Electrical Steel Sheet market size was valued at USD 8689.5 million in 2023 and is forecast to a readjusted size of USD 10730 million by 2030 with a CAGR of 3.1% 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.

This report mainly focuses on grain oriented electrical steel sheet. Grain oriented electrical steel is composed of iron with 3 % Si content with grains oriented to deliver high permeability and low energy loss. Grain oriented electrical steels have strong crystallographic properties. Grain oriented type undergoes a recrystallization process resulting in an enhanced grain structure which shows better magnetic properties in the rolling direction of the sheet. Grain oriented electrical steels are mostly used for transformers.

Global key players of Grain Oriented Electrical Steel Sheet include Baoshan Iron & Steel, Nippon Steel, etc. The top two players hold a share over 37%.

Asia-Pacific is the largest market, has a share about 65%, followed by Europe and North America, with share 19% and 8%, separately.

In terms of product type, HGO is the largest segment, occupied for a share of 70%, and in terms of application, Transformer has a share about 97%.

The Global Info Research report includes an overview of the development of the Grain Oriented Electrical Steel Sheet industry chain, the market status of Transformer (HGO, CGO), Others (HGO, CGO), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Grain Oriented Electrical Steel Sheet.

Regionally, the report analyzes the Grain Oriented Electrical Steel Sheet markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Grain Oriented Electrical Steel Sheet market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Grain Oriented Electrical Steel Sheet market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Grain Oriented Electrical Steel Sheet industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Tons), revenue generated, and market share of different by Type (e.g., HGO, CGO).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Grain Oriented Electrical Steel Sheet market.

Regional Analysis: The report involves examining the Grain Oriented Electrical Steel Sheet market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Grain Oriented Electrical Steel Sheet market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Grain Oriented Electrical Steel Sheet:

Company Analysis: Report covers individual Grain Oriented Electrical Steel Sheet manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Grain Oriented Electrical Steel Sheet. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Transformer, Others).

Technology Analysis: Report covers specific technologies relevant to Grain Oriented Electrical Steel Sheet. It assesses the current state, advancements, and potential future developments in Grain Oriented Electrical Steel Sheet areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Grain Oriented Electrical Steel Sheet market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Grain Oriented Electrical Steel Sheet market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

HGO

CGO

Market segment by Application

Transformer

Others

Major players covered

Baoshan Iron & Steel Co., Ltd.

Nippon Steel Corporation

NLMK Group

ThyssenKrupp AG

AK Steel Corporation (Cleveland-Cliffs Inc.)

JFE Steel Corporation

Beijing Shougang Co., Ltd.

Posco International Corporation

Chongqing Wangbian Electric (Group) Corp., Ltd.

Stalprodukt S.A.

Baotou Weifeng Rare Earth Electromagnetic Material Co., Ltd.

Ningbo Yinyi Group Co., Ltd.

Aperam S.A.

Zhejiang Huaying New Material Technology Co., Ltd.

Wuxi Huajing New Materials Co., Ltd.

Jiangyin Huashi Huaxi Cold Rolled Strip Co., Ltd.

Jiangsu Beichen Hubang Electric Power Co., Ltd.

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 Sheet product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Grain Oriented Electrical Steel Sheet, with price, sales, revenue and global market share of Grain Oriented Electrical Steel Sheet from 2019 to 2024.

Chapter 3, the Grain Oriented Electrical Steel Sheet 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 Sheet breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Grain Oriented Electrical Steel Sheet market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Sheet.

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

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