

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Grain Oriented Electrical Steel Market 2018, Forecast to 2023

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## Abstracts

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.

## SCOPE OF THE REPORT:

This report focuses on the Grain Oriented Electrical Steel in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Supply and demand conditions of grain oriented electrical steel show polarization. In low-

end products field, overcapacity has become more and more serious, but in the high-performance field, oriented electrical steel with high grade and magnetic induction, the market is in short supply. To seize a larger global market share, in the future, manufacturing companies will invest much more on R&D and the products will be closer to high-end field.

For regions, Asia, especially China, is the largest production and consumption region, followed by Europe and US. Japan and Korea also play important rule in the market, large quantity of Grain Oriented Electrical Steel is exported to the world every year. This situation will not change in the short term.

The worldwide market for Grain Oriented Electrical Steel is expected to grow at a CAGR of roughly 2.1% over the next five years, will reach 7530 million US\$ in 2023, from 6670 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Baowu Group

NSSMC

AK Steel

ThyssenKrupp

NLMK Group

JFE Steel

Posco

ArcelorMittal

Ansteel

Shougang

Stalprodukt S.A.

Cogent(Tata Steel)

ATI

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

General

High Magnetic Strength

Domain Refinement

Market Segment by Applications, can be divided into

Transformer

Power Generator

Electric Motor

Other

There are 15 Chapters to deeply display the global Grain Oriented Electrical Steel market.

*Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Grain Oriented Electrical...*

Chapter 1, to describe Grain Oriented Electrical Steel Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Grain Oriented Electrical Steel, with sales, revenue, and price of Grain Oriented Electrical Steel, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Grain Oriented Electrical Steel, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Grain Oriented Electrical Steel market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Grain Oriented Electrical Steel sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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