

Global Grain Oriented Electrical Steel Market by Manufacturers, Regions, Type and Application, Forecast to 2022

<https://marketpublishers.com/r/G75E0FB0BB7EN.html>

Date: May 2017

Pages: 121

Price: US\$ 3,480.00 (Single User License)

ID: G75E0FB0BB7EN

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.

Market Segment by Manufacturers, this report covers

NSSMC, Posco, JFE Steel, NLMK Group, ThyssenKrupp, AK Steel, Cogent (Tata Steel), ArcelorMittal, Stalprodukt S.A., ATI, WISCO, Baosteel, Shougang, Ansteel
Market Segment by Regions, regional analysis covers

North America (USA, Canada and Mexico)

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

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

South America, Middle East and 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 13 Chapters to deeply display the global Grain Oriented Electrical Steel market.

Chapter 1, to describe Grain Oriented Electrical Steel Introduction, product scope,

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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 2015 and 2016;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2015 and 2016;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Grain Oriented Electrical Steel, for each region, from 2012 to 2017;

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

Chapter 9 and 10, to show the market by type and application, with sales market share and growth rate by type, application, from 2012 to 2017;

Chapter 11, Grain Oriented Electrical Steel market forecast, by regions, type and application, with sales and revenue, from 2017 to 2022;

Chapter 12 and 13, to describe Grain Oriented Electrical Steel sales channel, distributors, traders, dealers, appendix and data source.

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