

Global and United States Grain Oriented Electrical Steel Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

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.

Market Segment as follows:

By Type

General

High magnetic strength

Domain refinement

By Application

Spinner

The Immobilizer

By Company

NSSMC

Posco

JFE Steel

NLMK Group

ThyssenKrupp

AK Steel

Cogent(Tata Steel)

ArcelorMittal

Stalprodukt S.A.

ATI

WISCO

Baosteel

Shougang

Ansteel

The main contents of the report including:

Section 1:

Product definition, type and application, global and United States market overview;

Section 2:

Global and United States Market competition by company;

Section 3:

Global and United States sales revenue, volume and price by type;

Section 4:

Global and United States sales revenue, volume and price by application;

Section 5:

United States export and import;

Section 6:

Company information, business overview, sales data and product specifications;

Section 7:

Industry chain and raw materials;

Section 8:

SWOT and Porter's Five Forces;

Section 9:

Conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Market Segment Overview
 - 1.1.1 Product Definition
 - 1.1.2 Market by Type
 - 1.1.2.1 General
 - 1.1.2.2 High magnetic strength
 - 1.1.2.3 Domain refinement
 - 1.1.3 Market by Application
 - 1.1.3.1 Spinner
 - 1.1.3.2 The Immobilizer
- 1.2 Global and Regional Market Size
 - 1.2.1 Global Overview
 - 1.2.2 United States Overview

2 GLOBAL AND REGIONAL MARKET BY COMPANY

- 2.1 Global
 - 2.1.1 Global Sales by Company
 - 2.1.2 Global Price by Company
- 2.2 United States
 - 2.2.1 United States Sales by Company
 - 2.2.2 United States Price by Company

3 GLOBAL AND REGIONAL MARKET BY TYPE

- 3.1 Global
 - 3.1.1 Global Sales by Type
 - 3.1.2 Global Price by Type
- 3.2 United States
 - 3.2.1 United States Sales by Type
 - 3.2.2 United States Price by Type

4 GLOBAL AND REGIONAL MARKET BY APPLICATION

- 4.1 Global
 - 4.1.1 Global Sales by Application

- 4.1.2 Global Price by Application
- 4.2 United States
 - 4.2.1 United States Sales by Application
 - 4.2.2 United States Price by Application

5 REGIONAL TRADE

- 5.1 Export
- 5.2 Import

6 KEY MANUFACTURERS

- 6.1 NSSMC
 - 6.1.2 Company Information
 - 6.1.2 Product Specifications
 - 6.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.2 Posco
 - 6.2.1 Company Information
 - 6.2.2 Product Specifications
 - 6.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.3 JFE Steel
 - 6.3.1 Company Information
 - 6.3.2 Product Specifications
 - 6.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.4 NLMK Group
 - 6.4.1 Company Information
 - 6.4.2 Product Specifications
 - 6.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.5 ThyssenKrupp
 - 6.5.1 Company Information
 - 6.5.2 Product Specifications
 - 6.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.6 AK Steel
 - 6.6.1 Company Information
 - 6.6.2 Product Specifications
 - 6.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.7 Cogent(Tata Steel)
 - 6.7.1 Company Information
 - 6.7.2 Product Specifications

- 6.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.8 ArcelorMittal
 - 6.8.1 Company Information
 - 6.8.2 Product Specifications
 - 6.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.9 Stalprodukt S.A.
 - 6.9.1 Company Information
 - 6.9.2 Product Specifications
 - 6.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.10 ATI
 - 6.10.1 Company Information
 - 6.10.2 Product Specifications
 - 6.10.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.11 WISCO
- 6.12 Baosteel
- 6.13 Shougang
- 6.14 Ansteel

7 INDUSTRY UPSTREAM

- 7.1 Industry Chain
- 7.2 Raw Materials

8 MARKET ENVIRONMENT

- 8.1 SWOT
- 8.2 Porter's Five Forces

9 CONCLUSION

List Of Tables

LIST OF TABLES

Table Global Market Sales Revenue by Company 2013-2017
Table Global Market Sales Revenue Share by Company 2013-2017
Table Global Market Sales Volume by Company 2013-2017
Table Global Market Sales Volume Share by Company 2013-2017
Table Global Price by Company 2013-2017
Table United States Market Sales Revenue by Company 2013-2017
Table United States Market Sales Revenue Share by Company 2013-2017
Table United States Market Sales Volume by Company 2013-2017
Table United States Market Sales Volume Share by Company 2013-2017
Table United States Price by Company 2013-2017
Table Global Market Sales Revenue by Type 2013-2017
Table Global Market Sales Revenue Share by Type 2013-2017
Table Global Market Sales Volume by Type 2013-2017
Table Global Market Sales Volume Share by Type 2013-2017
Table Global Price by Type 2013-2017
Table United States Market Sales Revenue by Type 2013-2017
Table United States Market Sales Revenue Share by Type 2013-2017
Table United States Market Sales Volume by Type 2013-2017
Table United States Market Sales Volume Share by Type 2013-2017
Table United States Price by Type 2013-2017
Table Global Market Sales Revenue by Application 2013-2017
Table Global Market Sales Revenue Share by Application 2013-2017
Table Global Market Sales Volume by Application 2013-2017
Table Global Market Sales Volume Share by Application 2013-2017
Table Global Price by Application 2013-2017
Table United States Market Sales Revenue by Application 2013-2017
Table United States Market Sales Revenue Share by Application 2013-2017
Table United States Market Sales Volume by Application 2013-2017
Table United States Market Sales Volume Share by Application 2013-2017
Table United States Price by Application 2013-2017
Table United States Export 2013-2017 (Million USD)
Table United States Export 2013-2017 (Volume)
Table United States Import 2013-2017 (Million USD)
Table United States Import 2013-2017 (Volume)
Table Sales Revenue, Volume, Price, Cost and Margin of NSSMC

Table Sales Revenue, Volume, Price, Cost and Margin of Posco
Table Sales Revenue, Volume, Price, Cost and Margin of JFE Steel
Table Sales Revenue, Volume, Price, Cost and Margin of NLMK Group
Table Sales Revenue, Volume, Price, Cost and Margin of ThyssenKrupp
Table Sales Revenue, Volume, Price, Cost and Margin of AK Steel
Table Sales Revenue, Volume, Price, Cost and Margin of Cogent(Tata Steel)
Table Sales Revenue, Volume, Price, Cost and Margin of ArcelorMittal
Table Sales Revenue, Volume, Price, Cost and Margin of Stalprodukt S.A.
Table Sales Revenue, Volume, Price, Cost and Margin of ATI
Table Sales Revenue, Volume, Price, Cost and Margin of WISCO
Table Sales Revenue, Volume, Price, Cost and Margin of Baosteel
Table Sales Revenue, Volume, Price, Cost and Margin of Shougang
Table Sales Revenue, Volume, Price, Cost and Margin of Ansteel

List Of Figures

LIST OF FIGURES

- Figure General Market Size and CAGR 2013-2017 (Million USD)
- Figure General Market Size and CAGR 2013-2017 (Volume)
- Figure General Market Forecast and CAGR 2018-2025 (Million USD)
- Figure General Market Forecast and CAGR 2018-2025 (Volume)
- Figure High magnetic strength Market Size and CAGR 2013-2017 (Million USD)
- Figure High magnetic strength Market Size and CAGR 2013-2017 (Volume)
- Figure High magnetic strength Market Forecast and CAGR 2018-2025 (Million USD)
- Figure High magnetic strength Market Forecast and CAGR 2018-2025 (Volume)
- Figure Domain refinement Market Size and CAGR 2013-2017 (Million USD)
- Figure Domain refinement Market Size and CAGR 2013-2017 (Volume)
- Figure Domain refinement Market Forecast and CAGR 2018-2025 (Million USD)
- Figure Domain refinement Market Forecast and CAGR 2018-2025 (Volume)
- Figure Spinner Market Size and CAGR 2013-2017 (Million USD)
- Figure Spinner Market Size and CAGR 2013-2017 (Volume)
- Figure Spinner Market Forecast and CAGR 2018-2025 (Million USD)
- Figure Spinner Market Forecast and CAGR 2018-2025 (Volume)
- Figure The Immobilizer Market Size and CAGR 2013-2017 (Million USD)
- Figure The Immobilizer Market Size and CAGR 2013-2017 (Volume)
- Figure The Immobilizer Market Forecast and CAGR 2018-2025 (Million USD)
- Figure The Immobilizer Market Forecast and CAGR 2018-2025 (Volume)
- Figure Global Grain Oriented Electrical Steel Market Size and CAGR 2013-2017 (Million USD)
- Figure Global Grain Oriented Electrical Steel Market Size and CAGR 2013-2017 (Volume)
- Figure Global Grain Oriented Electrical Steel Market Forecast and CAGR 2018-2025 (Million USD)
- Figure Global Grain Oriented Electrical Steel Market Forecast and CAGR 2018-2025 (Volume)
- Figure United States Grain Oriented Electrical Steel Market Size and CAGR 2013-2017 (Million USD)
- Figure United States Grain Oriented Electrical Steel Market Size and CAGR 2013-2017 (Volume)
- Figure United States Grain Oriented Electrical Steel Market Forecast and CAGR 2018-2025 (Million USD)
- Figure United States Grain Oriented Electrical Steel Market Forecast and CAGR

2018-2025 (Volume)

Figure Global Market Sales Revenue Share by Company in 2017

Figure Global Market Sales Volume Share by Company in 2017

Figure United States Market Sales Revenue Share by Company in 2017

Figure United States Market Sales Volume Share by Company in 2017

Figure Global Market Sales Revenue Share by Type in 2017

Figure Global Market Sales Volume Share by Type in 2017

Figure United States Market Sales Revenue Share by Type in 2017

Figure United States Market Sales Volume Share by Type in 2017

Figure Global Market Sales Revenue Share by Application in 2017

Figure Global Market Sales Volume Share by Application in 2017

Figure United States Market Sales Revenue Share by Application in 2017

Figure United States Market Sales Volume Share by Application in 2017

Figure Industry Chain Overview

Figure Grain Oriented Electrical Steel SWOT List

Figure Chemicals & Materials Porter's Five Forces

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