

Grain Oriented Electrical Steel Market, Global Outlook and Forecast 2022-2028

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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.

This report contains market size and forecasts of Grain Oriented Electrical Steel in global, including the following market information:

Global Grain Oriented Electrical Steel Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Grain Oriented Electrical Steel Market Sales, 2017-2022, 2023-2028, (K MT)

Global top five Grain Oriented Electrical Steel companies in 2021 (%)

The global Grain Oriented Electrical Steel market was valued at 6600.2 million in 2021 and is projected to reach US\$ 8114.8 million by 2028, at a CAGR of 3.0% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

High Magnetic Strength Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Grain Oriented Electrical Steel include Baowu Group, Nippon Steel, NLMK, AK Steel (Cleveland-Cliffs), Shougang, Posco, JFE Steel, ThyssenKrupp and Stalprodukt S.A., etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Grain Oriented Electrical Steel manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Grain Oriented Electrical Steel Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K MT)

Global Grain Oriented Electrical Steel Market Segment Percentages, by Type, 2021 (%)

High Magnetic Strength

Conventional

Domain Refinement

Global Grain Oriented Electrical Steel Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K MT)

Global Grain Oriented Electrical Steel Market Segment Percentages, by Application, 2021 (%)

Transformer

Motor

Other

Global Grain Oriented Electrical Steel Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K MT)

Global Grain Oriented Electrical Steel Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Grain Oriented Electrical Steel revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Grain Oriented Electrical Steel revenues share in global market, 2021 (%)

Key companies Grain Oriented Electrical Steel sales in global market, 2017-2022 (Estimated), (K MT)

Key companies Grain Oriented Electrical Steel sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Baowu Group

Nippon Steel

NLMK

AK Steel (Cleveland-Cliffs)

Shougang

Posco

JFE Steel

ThyssenKrupp

Stalprodukt S.A.

Baotou Weifeng

Aperam

Chongqing Wangbian

Zhejiang Huaying

Wuxi Huajing

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Grain Oriented Electrical Steel Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Grain Oriented Electrical Steel Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL GRAIN ORIENTED ELECTRICAL STEEL OVERALL MARKET SIZE

- 2.1 Global Grain Oriented Electrical Steel Market Size: 2021 VS 2028
- 2.2 Global Grain Oriented Electrical Steel Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global Grain Oriented Electrical Steel Sales: 2017-2028

3 COMPANY LANDSCAPE

- 3.1 Top Grain Oriented Electrical Steel Players in Global Market
- 3.2 Top Global Grain Oriented Electrical Steel Companies Ranked by Revenue
- 3.3 Global Grain Oriented Electrical Steel Revenue by Companies
- 3.4 Global Grain Oriented Electrical Steel Sales by Companies
- 3.5 Global Grain Oriented Electrical Steel Price by Manufacturer (2017-2022)
- 3.6 Top 3 and Top 5 Grain Oriented Electrical Steel Companies in Global Market, by Revenue in 2021
- 3.7 Global Manufacturers Grain Oriented Electrical Steel Product Type
- 3.8 Tier 1, Tier 2 and Tier 3 Grain Oriented Electrical Steel Players in Global Market
 - 3.8.1 List of Global Tier 1 Grain Oriented Electrical Steel Companies
 - 3.8.2 List of Global Tier 2 and Tier 3 Grain Oriented Electrical Steel Companies

4 SIGHTS BY PRODUCT

- 4.1 Overview

4.1.1 By Type - Global Grain Oriented Electrical Steel Market Size Markets, 2021 & 2028

4.1.2 High Magnetic Strength

4.1.3 Conventional

4.1.4 Domain Refinement

4.2 By Type - Global Grain Oriented Electrical Steel Revenue & Forecasts

4.2.1 By Type - Global Grain Oriented Electrical Steel Revenue, 2017-2022

4.2.2 By Type - Global Grain Oriented Electrical Steel Revenue, 2023-2028

4.2.3 By Type - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

4.3 By Type - Global Grain Oriented Electrical Steel Sales & Forecasts

4.3.1 By Type - Global Grain Oriented Electrical Steel Sales, 2017-2022

4.3.2 By Type - Global Grain Oriented Electrical Steel Sales, 2023-2028

4.3.3 By Type - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028

4.4 By Type - Global Grain Oriented Electrical Steel Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Grain Oriented Electrical Steel Market Size, 2021 & 2028

5.1.2 Transformer

5.1.3 Motor

5.1.4 Other

5.2 By Application - Global Grain Oriented Electrical Steel Revenue & Forecasts

5.2.1 By Application - Global Grain Oriented Electrical Steel Revenue, 2017-2022

5.2.2 By Application - Global Grain Oriented Electrical Steel Revenue, 2023-2028

5.2.3 By Application - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

5.3 By Application - Global Grain Oriented Electrical Steel Sales & Forecasts

5.3.1 By Application - Global Grain Oriented Electrical Steel Sales, 2017-2022

5.3.2 By Application - Global Grain Oriented Electrical Steel Sales, 2023-2028

5.3.3 By Application - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028

5.4 By Application - Global Grain Oriented Electrical Steel Price (Manufacturers Selling Prices), 2017-2028

6 SIGHTS BY REGION

- 6.1 By Region - Global Grain Oriented Electrical Steel Market Size, 2021 & 2028
- 6.2 By Region - Global Grain Oriented Electrical Steel Revenue & Forecasts
 - 6.2.1 By Region - Global Grain Oriented Electrical Steel Revenue, 2017-2022
 - 6.2.2 By Region - Global Grain Oriented Electrical Steel Revenue, 2023-2028
 - 6.2.3 By Region - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028
- 6.3 By Region - Global Grain Oriented Electrical Steel Sales & Forecasts
 - 6.3.1 By Region - Global Grain Oriented Electrical Steel Sales, 2017-2022
 - 6.3.2 By Region - Global Grain Oriented Electrical Steel Sales, 2023-2028
 - 6.3.3 By Region - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028
- 6.4 North America
 - 6.4.1 By Country - North America Grain Oriented Electrical Steel Revenue, 2017-2028
 - 6.4.2 By Country - North America Grain Oriented Electrical Steel Sales, 2017-2028
 - 6.4.3 US Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.4.4 Canada Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.4.5 Mexico Grain Oriented Electrical Steel Market Size, 2017-2028
- 6.5 Europe
 - 6.5.1 By Country - Europe Grain Oriented Electrical Steel Revenue, 2017-2028
 - 6.5.2 By Country - Europe Grain Oriented Electrical Steel Sales, 2017-2028
 - 6.5.3 Germany Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.4 France Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.5 U.K. Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.6 Italy Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.7 Russia Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.8 Nordic Countries Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.5.9 Benelux Grain Oriented Electrical Steel Market Size, 2017-2028
- 6.6 Asia
 - 6.6.1 By Region - Asia Grain Oriented Electrical Steel Revenue, 2017-2028
 - 6.6.2 By Region - Asia Grain Oriented Electrical Steel Sales, 2017-2028
 - 6.6.3 China Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.6.4 Japan Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.6.5 South Korea Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.6.6 Southeast Asia Grain Oriented Electrical Steel Market Size, 2017-2028
 - 6.6.7 India Grain Oriented Electrical Steel Market Size, 2017-2028
- 6.7 South America
 - 6.7.1 By Country - South America Grain Oriented Electrical Steel Revenue, 2017-2028
 - 6.7.2 By Country - South America Grain Oriented Electrical Steel Sales, 2017-2028
 - 6.7.3 Brazil Grain Oriented Electrical Steel Market Size, 2017-2028

6.7.4 Argentina Grain Oriented Electrical Steel Market Size, 2017-2028

6.8 Middle East & Africa

6.8.1 By Country - Middle East & Africa Grain Oriented Electrical Steel Revenue, 2017-2028

6.8.2 By Country - Middle East & Africa Grain Oriented Electrical Steel Sales, 2017-2028

6.8.3 Turkey Grain Oriented Electrical Steel Market Size, 2017-2028

6.8.4 Israel Grain Oriented Electrical Steel Market Size, 2017-2028

6.8.5 Saudi Arabia Grain Oriented Electrical Steel Market Size, 2017-2028

6.8.6 UAE Grain Oriented Electrical Steel Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 Baowu Group

7.1.1 Baowu Group Corporate Summary

7.1.2 Baowu Group Business Overview

7.1.3 Baowu Group Grain Oriented Electrical Steel Major Product Offerings

7.1.4 Baowu Group Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.1.5 Baowu Group Key News

7.2 Nippon Steel

7.2.1 Nippon Steel Corporate Summary

7.2.2 Nippon Steel Business Overview

7.2.3 Nippon Steel Grain Oriented Electrical Steel Major Product Offerings

7.2.4 Nippon Steel Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.2.5 Nippon Steel Key News

7.3 NLMK

7.3.1 NLMK Corporate Summary

7.3.2 NLMK Business Overview

7.3.3 NLMK Grain Oriented Electrical Steel Major Product Offerings

7.3.4 NLMK Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.3.5 NLMK Key News

7.4 AK Steel (Cleveland-Cliffs)

7.4.1 AK Steel (Cleveland-Cliffs) Corporate Summary

7.4.2 AK Steel (Cleveland-Cliffs) Business Overview

7.4.3 AK Steel (Cleveland-Cliffs) Grain Oriented Electrical Steel Major Product Offerings

7.4.4 AK Steel (Cleveland-Cliffs) Grain Oriented Electrical Steel Sales and Revenue in

Global (2017-2022)

7.4.5 AK Steel (Cleveland-Cliffs) Key News

7.5 Shougang

7.5.1 Shougang Corporate Summary

7.5.2 Shougang Business Overview

7.5.3 Shougang Grain Oriented Electrical Steel Major Product Offerings

7.5.4 Shougang Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.5.5 Shougang Key News

7.6 Posco

7.6.1 Posco Corporate Summary

7.6.2 Posco Business Overview

7.6.3 Posco Grain Oriented Electrical Steel Major Product Offerings

7.6.4 Posco Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.6.5 Posco Key News

7.7 JFE Steel

7.7.1 JFE Steel Corporate Summary

7.7.2 JFE Steel Business Overview

7.7.3 JFE Steel Grain Oriented Electrical Steel Major Product Offerings

7.7.4 JFE Steel Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.7.5 JFE Steel Key News

7.8 ThyssenKrupp

7.8.1 ThyssenKrupp Corporate Summary

7.8.2 ThyssenKrupp Business Overview

7.8.3 ThyssenKrupp Grain Oriented Electrical Steel Major Product Offerings

7.8.4 ThyssenKrupp Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.8.5 ThyssenKrupp Key News

7.9 Stalprodukt S.A.

7.9.1 Stalprodukt S.A. Corporate Summary

7.9.2 Stalprodukt S.A. Business Overview

7.9.3 Stalprodukt S.A. Grain Oriented Electrical Steel Major Product Offerings

7.9.4 Stalprodukt S.A. Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)

7.9.5 Stalprodukt S.A. Key News

7.10 Baotou Weifeng

7.10.1 Baotou Weifeng Corporate Summary

7.10.2 Baotou Weifeng Business Overview

- 7.10.3 Baotou Weifeng Grain Oriented Electrical Steel Major Product Offerings
- 7.10.4 Baotou Weifeng Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)
- 7.10.5 Baotou Weifeng Key News
- 7.11 Aperam
 - 7.11.1 Aperam Corporate Summary
 - 7.11.2 Aperam Grain Oriented Electrical Steel Business Overview
 - 7.11.3 Aperam Grain Oriented Electrical Steel Major Product Offerings
 - 7.11.4 Aperam Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)
 - 7.11.5 Aperam Key News
- 7.12 Chongqing Wangbian
 - 7.12.1 Chongqing Wangbian Corporate Summary
 - 7.12.2 Chongqing Wangbian Grain Oriented Electrical Steel Business Overview
 - 7.12.3 Chongqing Wangbian Grain Oriented Electrical Steel Major Product Offerings
 - 7.12.4 Chongqing Wangbian Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)
 - 7.12.5 Chongqing Wangbian Key News
- 7.13 Zhejiang Huaying
 - 7.13.1 Zhejiang Huaying Corporate Summary
 - 7.13.2 Zhejiang Huaying Grain Oriented Electrical Steel Business Overview
 - 7.13.3 Zhejiang Huaying Grain Oriented Electrical Steel Major Product Offerings
 - 7.13.4 Zhejiang Huaying Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)
 - 7.13.5 Zhejiang Huaying Key News
- 7.14 Wuxi Huajing
 - 7.14.1 Wuxi Huajing Corporate Summary
 - 7.14.2 Wuxi Huajing Business Overview
 - 7.14.3 Wuxi Huajing Grain Oriented Electrical Steel Major Product Offerings
 - 7.14.4 Wuxi Huajing Grain Oriented Electrical Steel Sales and Revenue in Global (2017-2022)
 - 7.14.5 Wuxi Huajing Key News

8 GLOBAL GRAIN ORIENTED ELECTRICAL STEEL PRODUCTION CAPACITY, ANALYSIS

- 8.1 Global Grain Oriented Electrical Steel Production Capacity, 2017-2028
- 8.2 Grain Oriented Electrical Steel Production Capacity of Key Manufacturers in Global Market

8.3 Global Grain Oriented Electrical Steel Production by Region

9 KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS

9.1 Market Opportunities & Trends

9.2 Market Drivers

9.3 Market Restraints

10 GRAIN ORIENTED ELECTRICAL STEEL SUPPLY CHAIN ANALYSIS

10.1 Grain Oriented Electrical Steel Industry Value Chain

10.2 Grain Oriented Electrical Steel Upstream Market

10.3 Grain Oriented Electrical Steel Downstream and Clients

10.4 Marketing Channels Analysis

10.4.1 Marketing Channels

10.4.2 Grain Oriented Electrical Steel Distributors and Sales Agents in Global

11 CONCLUSION

12 APPENDIX

12.1 Note

12.2 Examples of Clients

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Grain Oriented Electrical Steel in Global Market

Table 2. Top Grain Oriented Electrical Steel Players in Global Market, Ranking by Revenue (2021)

Table 3. Global Grain Oriented Electrical Steel Revenue by Companies, (US\$, Mn), 2017-2022

Table 4. Global Grain Oriented Electrical Steel Revenue Share by Companies, 2017-2022

Table 5. Global Grain Oriented Electrical Steel Sales by Companies, (K MT), 2017-2022

Table 6. Global Grain Oriented Electrical Steel Sales Share by Companies, 2017-2022

Table 7. Key Manufacturers Grain Oriented Electrical Steel Price (2017-2022) & (US\$/MT)

Table 8. Global Manufacturers Grain Oriented Electrical Steel Product Type

Table 9. List of Global Tier 1 Grain Oriented Electrical Steel Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Grain Oriented Electrical Steel Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2017-2022

Table 13. By Type - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2023-2028

Table 14. By Type - Global Grain Oriented Electrical Steel Sales (K MT), 2017-2022

Table 15. By Type - Global Grain Oriented Electrical Steel Sales (K MT), 2023-2028

Table 16. By Application – Global Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2021 & 2028

Table 17. By Application - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2017-2022

Table 18. By Application - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2023-2028

Table 19. By Application - Global Grain Oriented Electrical Steel Sales (K MT), 2017-2022

Table 20. By Application - Global Grain Oriented Electrical Steel Sales (K MT), 2023-2028

Table 21. By Region – Global Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2021

VS 2028

Table 22. By Region - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global Grain Oriented Electrical Steel Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global Grain Oriented Electrical Steel Sales (K MT), 2017-2022

Table 25. By Region - Global Grain Oriented Electrical Steel Sales (K MT), 2023-2028

Table 26. By Country - North America Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America Grain Oriented Electrical Steel Sales, (K MT), 2017-2022

Table 29. By Country - North America Grain Oriented Electrical Steel Sales, (K MT), 2023-2028

Table 30. By Country - Europe Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe Grain Oriented Electrical Steel Sales, (K MT), 2017-2022

Table 33. By Country - Europe Grain Oriented Electrical Steel Sales, (K MT), 2023-2028

Table 34. By Region - Asia Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia Grain Oriented Electrical Steel Sales, (K MT), 2017-2022

Table 37. By Region - Asia Grain Oriented Electrical Steel Sales, (K MT), 2023-2028

Table 38. By Country - South America Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America Grain Oriented Electrical Steel Sales, (K MT), 2017-2022

Table 41. By Country - South America Grain Oriented Electrical Steel Sales, (K MT), 2023-2028

Table 42. By Country - Middle East & Africa Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa Grain Oriented Electrical Steel Sales, (K MT), 2017-2022

Table 45. By Country - Middle East & Africa Grain Oriented Electrical Steel Sales, (K MT), 2023-2028

Table 46. Baowu Group Corporate Summary

Table 47. Baowu Group Grain Oriented Electrical Steel Product Offerings

Table 48. Baowu Group Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 49. Nippon Steel Corporate Summary

Table 50. Nippon Steel Grain Oriented Electrical Steel Product Offerings

Table 51. Nippon Steel Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 52. NLMK Corporate Summary

Table 53. NLMK Grain Oriented Electrical Steel Product Offerings

Table 54. NLMK Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 55. AK Steel (Cleveland-Cliffs) Corporate Summary

Table 56. AK Steel (Cleveland-Cliffs) Grain Oriented Electrical Steel Product Offerings

Table 57. AK Steel (Cleveland-Cliffs) Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 58. Shougang Corporate Summary

Table 59. Shougang Grain Oriented Electrical Steel Product Offerings

Table 60. Shougang Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 61. Posco Corporate Summary

Table 62. Posco Grain Oriented Electrical Steel Product Offerings

Table 63. Posco Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 64. JFE Steel Corporate Summary

Table 65. JFE Steel Grain Oriented Electrical Steel Product Offerings

Table 66. JFE Steel Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 67. ThyssenKrupp Corporate Summary

Table 68. ThyssenKrupp Grain Oriented Electrical Steel Product Offerings

Table 69. ThyssenKrupp Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 70. Stalprodukt S.A. Corporate Summary

Table 71. Stalprodukt S.A. Grain Oriented Electrical Steel Product Offerings

Table 72. Stalprodukt S.A. Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$,

Mn) and Average Price (US\$/MT) (2017-2022)

Table 73. Baotou Weifeng Corporate Summary

Table 74. Baotou Weifeng Grain Oriented Electrical Steel Product Offerings

Table 75. Baotou Weifeng Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 76. Aperam Corporate Summary

Table 77. Aperam Grain Oriented Electrical Steel Product Offerings

Table 78. Aperam Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 79. Chongqing Wangbian Corporate Summary

Table 80. Chongqing Wangbian Grain Oriented Electrical Steel Product Offerings

Table 81. Chongqing Wangbian Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 82. Zhejiang Huaying Corporate Summary

Table 83. Zhejiang Huaying Grain Oriented Electrical Steel Product Offerings

Table 84. Zhejiang Huaying Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 85. Wuxi Huajing Corporate Summary

Table 86. Wuxi Huajing Grain Oriented Electrical Steel Product Offerings

Table 87. Wuxi Huajing Grain Oriented Electrical Steel Sales (K MT), Revenue (US\$, Mn) and Average Price (US\$/MT) (2017-2022)

Table 88. Grain Oriented Electrical Steel Production Capacity (K MT) of Key Manufacturers in Global Market, 2020-2022 (K MT)

Table 89. Global Grain Oriented Electrical Steel Capacity Market Share of Key Manufacturers, 2020-2022

Table 90. Global Grain Oriented Electrical Steel Production by Region, 2017-2022 (K MT)

Table 91. Global Grain Oriented Electrical Steel Production by Region, 2023-2028 (K MT)

Table 92. Grain Oriented Electrical Steel Market Opportunities & Trends in Global Market

Table 93. Grain Oriented Electrical Steel Market Drivers in Global Market

Table 94. Grain Oriented Electrical Steel Market Restraints in Global Market

Table 95. Grain Oriented Electrical Steel Raw Materials

Table 96. Grain Oriented Electrical Steel Raw Materials Suppliers in Global Market

Table 97. Typical Grain Oriented Electrical Steel Downstream

Table 98. Grain Oriented Electrical Steel Downstream Clients in Global Market

Table 99. Grain Oriented Electrical Steel Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

Figure 1. Grain Oriented Electrical Steel Segment by Type

Figure 2. Grain Oriented Electrical Steel Segment by Application

Figure 3. Global Grain Oriented Electrical Steel Market Overview: 2021

Figure 4. Key Caveats

Figure 5. Global Grain Oriented Electrical Steel Market Size: 2021 VS 2028 (US\$, Mn)

Figure 6. Global Grain Oriented Electrical Steel Revenue, 2017-2028 (US\$, Mn)

Figure 7. Grain Oriented Electrical Steel Sales in Global Market: 2017-2028 (K MT)

Figure 8. The Top 3 and 5 Players Market Share by Grain Oriented Electrical Steel Revenue in 2021

Figure 9. By Type - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 10. By Type - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 11. By Type - Global Grain Oriented Electrical Steel Price (US\$/MT), 2017-2028

Figure 12. By Application - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 13. By Application - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 14. By Application - Global Grain Oriented Electrical Steel Price (US\$/MT), 2017-2028

Figure 15. By Region - Global Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 16. By Region - Global Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 17. By Country - North America Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 18. By Country - North America Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 19. US Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 20. Canada Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 21. Mexico Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 22. By Country - Europe Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 23. By Country - Europe Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 24. Germany Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 25. France Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 32. By Region - Asia Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 33. China Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 37. India Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 39. By Country - South America Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 40. Brazil Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa Grain Oriented Electrical Steel Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa Grain Oriented Electrical Steel Sales Market Share, 2017-2028

Figure 44. Turkey Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE Grain Oriented Electrical Steel Revenue, (US\$, Mn), 2017-2028

Figure 48. Global Grain Oriented Electrical Steel Production Capacity (K MT), 2017-2028

Figure 49. The Percentage of Production Grain Oriented Electrical Steel by Region, 2021 VS 2028

Figure 50. Grain Oriented Electrical Steel Industry Value Chain

Figure 51. Marketing Channels

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