

Global Enameled Rectangular Wire Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD6DF9BF115FEN.html>

Date: June 2026

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: GD6DF9BF115FEN

Abstracts

The global Enameled Rectangular Wire market size is expected to reach \$ 5481 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

Rectangular enameled wire, also referred to as flat magnet wire, is a high-performance conductor featuring a rectangular or square cross-section coated with a thin, durable layer of polymer insulation. In 2026, the technology has reached a critical adoption phase, transitioning from a niche industrial component to the primary standard for high-power-density electrification. The defining characteristic of rectangular wire is its superior 'fill factor'; by eliminating the air gaps inherent in round wire coils, rectangular windings can occupy up to 20-30% more space within a motor slot. This translates directly into higher torque, improved thermal dissipation, and smaller overall footprints. As of 2026, the market is primarily driven by the 'Hairpin Winding' revolution in Electric Vehicle (EV) traction motors, which relies on pre-formed rectangular U-pins to achieve maximum efficiency in 800V architectures.

In 2025, global rectangular enameled wire production reached approximately 333.54 k tons, with an average global market price of around US\$ 9483 per ton. And global rectangular enameled wire production capacity reached approximately 450 k tons. The average gross margin in this industry reached 26.51%.

The upstream supply chain for rectangular enameled wire is anchored in ultra-high-purity metallurgy and specialized polymer chemistry. Success in this tier is dictated by the ability to achieve a 'defect-free' enamel coating on the wire's sharp edges—a historical technical bottleneck. Key upstream suppliers include Luvata and Aurubis (providing oxygen-free, high-conductivity [OFHC] copper and aluminum rods), and

chemical leaders like Elantas and Axalta (supplying the Polyamide-imide (PAI) and Polyester-imide (PEI) enamels). In 2026, a major upstream priority is the development of Corona-Resistant (CR) coatings, which are essential for protecting the wire from the high-frequency voltage spikes generated by Silicon Carbide (SiC) inverters in modern power electronics.

The downstream segment involves the integration of these wires into the core components of the energy and transportation sectors. At this stage, value is generated through high-speed automation and precision 'hairpin' bending. Significant downstream customers and high-volume users include Tesla and BYD (the world's largest consumers of rectangular wire for EV drivetrains), Siemens Energy and ABB (utilizing the wire for high-efficiency distribution transformers and industrial generators), and SolarEdge (incorporating flat wire into compact, high-frequency inverters). The 2026 downstream market is seeing a surge in 'In-Region' manufacturing, where wire producers are building facilities in close proximity to EV gigafactories to minimize logistical delays and the risk of oxidation during transit.

This report studies the global Enameled Rectangular Wire production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Enameled Rectangular Wire and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Enameled Rectangular Wire that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Enameled Rectangular Wire total production and demand, 2021-2032, (Tons)

Global Enameled Rectangular Wire total production value, 2021-2032, (USD Million)

Global Enameled Rectangular Wire production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Enameled Rectangular Wire consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Enameled Rectangular Wire domestic production, consumption, key domestic manufacturers and share

Global Enameled Rectangular Wire production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Enameled Rectangular Wire production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Enameled Rectangular Wire production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Enameled Rectangular Wire market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Elantas, Dahr?n, Von Roll, Essex Solutions, KSH International, Tonytech, Hubei Zhongke Huaye New Material, Guangdong Songtian Technology, Darun, Huayang Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Enameled Rectangular Wire market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Enameled Rectangular Wire Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Enameled Rectangular Wire Market, Segmentation by Type:

Copper

Aluminum

Global Enameled Rectangular Wire Market, Segmentation by Insulation Type:

Polyester

Polyimide

Polyurethane

Others

Global Enameled Rectangular Wire Market, Segmentation by Thermal Class:

Class B (130 °C)

Class F (155 °C)

Class H (180 °C)

Other

Global Enameled Rectangular Wire Market, Segmentation by Application:

Motors

Transformers

Inductors

Others

Companies Profiled:

Elantas

Dahr?n

Von Roll

Essex Solutions

KSH International

Tonytech

Hubei Zhongke Huaye New Material

Guangdong Songtian Technology

Darun

Huayang Electric

Sumitomo Electric

WELLASCENT ELECTRONIC

Jingda

NINGBO JINTIAN NEW MATERIAL

Goldcup Electric Apparatus

Grandwall Technology

Citychamp Dartong

Key Questions Answered:

1. How big is the global Enameled Rectangular Wire market?
2. What is the demand of the global Enameled Rectangular Wire market?
3. What is the year over year growth of the global Enameled Rectangular Wire market?
4. What is the production and production value of the global Enameled Rectangular Wire market?
5. Who are the key producers in the global Enameled Rectangular Wire market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Enameled Rectangular Wire Introduction
- 1.2 World Enameled Rectangular Wire Supply & Forecast
 - 1.2.1 World Enameled Rectangular Wire Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Enameled Rectangular Wire Production (2021-2032)
 - 1.2.3 World Enameled Rectangular Wire Pricing Trends (2021-2032)
- 1.3 World Enameled Rectangular Wire Production by Region (Based on Production Site)
 - 1.3.1 World Enameled Rectangular Wire Production Value by Region (2021-2032)
 - 1.3.2 World Enameled Rectangular Wire Production by Region (2021-2032)
 - 1.3.3 World Enameled Rectangular Wire Average Price by Region (2021-2032)
 - 1.3.4 North America Enameled Rectangular Wire Production (2021-2032)
 - 1.3.5 Europe Enameled Rectangular Wire Production (2021-2032)
 - 1.3.6 China Enameled Rectangular Wire Production (2021-2032)
 - 1.3.7 Japan Enameled Rectangular Wire Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Enameled Rectangular Wire Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Enameled Rectangular Wire Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Enameled Rectangular Wire Demand (2021-2032)
- 2.2 World Enameled Rectangular Wire Consumption by Region
 - 2.2.1 World Enameled Rectangular Wire Consumption by Region (2021-2026)
 - 2.2.2 World Enameled Rectangular Wire Consumption Forecast by Region (2027-2032)
- 2.3 United States Enameled Rectangular Wire Consumption (2021-2032)
- 2.4 China Enameled Rectangular Wire Consumption (2021-2032)
- 2.5 Europe Enameled Rectangular Wire Consumption (2021-2032)
- 2.6 Japan Enameled Rectangular Wire Consumption (2021-2032)
- 2.7 South Korea Enameled Rectangular Wire Consumption (2021-2032)
- 2.8 ASEAN Enameled Rectangular Wire Consumption (2021-2032)
- 2.9 India Enameled Rectangular Wire Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Enameled Rectangular Wire Production Value by Manufacturer (2021-2026)
- 3.2 World Enameled Rectangular Wire Production by Manufacturer (2021-2026)
- 3.3 World Enameled Rectangular Wire Average Price by Manufacturer (2021-2026)
- 3.4 Enameled Rectangular Wire Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Enameled Rectangular Wire Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Enameled Rectangular Wire in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Enameled Rectangular Wire in 2025
- 3.6 Enameled Rectangular Wire Market: Overall Company Footprint Analysis
 - 3.6.1 Enameled Rectangular Wire Market: Region Footprint
 - 3.6.2 Enameled Rectangular Wire Market: Company Product Type Footprint
 - 3.6.3 Enameled Rectangular Wire Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Enameled Rectangular Wire Production Value Comparison
 - 4.1.1 United States VS China: Enameled Rectangular Wire Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Enameled Rectangular Wire Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Enameled Rectangular Wire Production Comparison
 - 4.2.1 United States VS China: Enameled Rectangular Wire Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Enameled Rectangular Wire Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Enameled Rectangular Wire Consumption Comparison
 - 4.3.1 United States VS China: Enameled Rectangular Wire Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Enameled Rectangular Wire Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Enameled Rectangular Wire Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Enameled Rectangular Wire Manufacturers, Headquarters

and Production Site (States, Country)

4.4.2 United States Based Manufacturers Enameled Rectangular Wire Production Value (2021-2026)

4.4.3 United States Based Manufacturers Enameled Rectangular Wire Production (2021-2026)

4.5 China Based Enameled Rectangular Wire Manufacturers and Market Share

4.5.1 China Based Enameled Rectangular Wire Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Enameled Rectangular Wire Production Value (2021-2026)

4.5.3 China Based Manufacturers Enameled Rectangular Wire Production (2021-2026)

4.6 Rest of World Based Enameled Rectangular Wire Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Enameled Rectangular Wire Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Enameled Rectangular Wire Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Enameled Rectangular Wire Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Enameled Rectangular Wire Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Copper

5.2.2 Aluminum

5.3 Market Segment by Type

5.3.1 World Enameled Rectangular Wire Production by Type (2021-2032)

5.3.2 World Enameled Rectangular Wire Production Value by Type (2021-2032)

5.3.3 World Enameled Rectangular Wire Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSULATION TYPE

6.1 World Enameled Rectangular Wire Market Size Overview by Insulation Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Insulation Type

6.2.1 Polyester

6.2.2 Polyimide

6.2.3 Polyurethane

6.2.4 Others

6.3 Market Segment by Insulation Type

6.3.1 World Enameled Rectangular Wire Production by Insulation Type (2021-2032)

6.3.2 World Enameled Rectangular Wire Production Value by Insulation Type (2021-2032)

6.3.3 World Enameled Rectangular Wire Average Price by Insulation Type (2021-2032)

7 MARKET ANALYSIS BY THERMAL CLASS

7.1 World Enameled Rectangular Wire Market Size Overview by Thermal Class: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Thermal Class

7.2.1 Class B (130 °C)

7.2.2 Class F (155 °C)

7.2.3 Class H (180 °C)

7.2.4 Other

7.3 Market Segment by Thermal Class

7.3.1 World Enameled Rectangular Wire Production by Thermal Class (2021-2032)

7.3.2 World Enameled Rectangular Wire Production Value by Thermal Class (2021-2032)

7.3.3 World Enameled Rectangular Wire Average Price by Thermal Class (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Enameled Rectangular Wire Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Motors

8.2.2 Transformers

8.2.3 Inductors

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Enameled Rectangular Wire Production by Application (2021-2032)

8.3.2 World Enameled Rectangular Wire Production Value by Application (2021-2032)

8.3.3 World Enameled Rectangular Wire Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Elantas

9.1.1 Elantas Details

9.1.2 Elantas Major Business

9.1.3 Elantas Enameled Rectangular Wire Product and Services

9.1.4 Elantas Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Elantas Recent Developments/Updates

9.1.6 Elantas Competitive Strengths & Weaknesses

9.2 Dahr?n

9.2.1 Dahr?n Details

9.2.2 Dahr?n Major Business

9.2.3 Dahr?n Enameled Rectangular Wire Product and Services

9.2.4 Dahr?n Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Dahr?n Recent Developments/Updates

9.2.6 Dahr?n Competitive Strengths & Weaknesses

9.3 Von Roll

9.3.1 Von Roll Details

9.3.2 Von Roll Major Business

9.3.3 Von Roll Enameled Rectangular Wire Product and Services

9.3.4 Von Roll Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Von Roll Recent Developments/Updates

9.3.6 Von Roll Competitive Strengths & Weaknesses

9.4 Essex Solutions

9.4.1 Essex Solutions Details

9.4.2 Essex Solutions Major Business

9.4.3 Essex Solutions Enameled Rectangular Wire Product and Services

9.4.4 Essex Solutions Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Essex Solutions Recent Developments/Updates

9.4.6 Essex Solutions Competitive Strengths & Weaknesses

9.5 KSH International

9.5.1 KSH International Details

9.5.2 KSH International Major Business

9.5.3 KSH International Enameled Rectangular Wire Product and Services

9.5.4 KSH International Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 KSH International Recent Developments/Updates

9.5.6 KSH International Competitive Strengths & Weaknesses

9.6 Tonytech

9.6.1 Tonytech Details

9.6.2 Tonytech Major Business

9.6.3 Tonytech Enameled Rectangular Wire Product and Services

9.6.4 Tonytech Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Tonytech Recent Developments/Updates

9.6.6 Tonytech Competitive Strengths & Weaknesses

9.7 Hubei Zhongke Huaye New Material

9.7.1 Hubei Zhongke Huaye New Material Details

9.7.2 Hubei Zhongke Huaye New Material Major Business

9.7.3 Hubei Zhongke Huaye New Material Enameled Rectangular Wire Product and Services

9.7.4 Hubei Zhongke Huaye New Material Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Hubei Zhongke Huaye New Material Recent Developments/Updates

9.7.6 Hubei Zhongke Huaye New Material Competitive Strengths & Weaknesses

9.8 Guangdong Songtian Technology

9.8.1 Guangdong Songtian Technology Details

9.8.2 Guangdong Songtian Technology Major Business

9.8.3 Guangdong Songtian Technology Enameled Rectangular Wire Product and Services

9.8.4 Guangdong Songtian Technology Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Guangdong Songtian Technology Recent Developments/Updates

9.8.6 Guangdong Songtian Technology Competitive Strengths & Weaknesses

9.9 Darun

9.9.1 Darun Details

9.9.2 Darun Major Business

9.9.3 Darun Enameled Rectangular Wire Product and Services

9.9.4 Darun Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Darun Recent Developments/Updates

9.9.6 Darun Competitive Strengths & Weaknesses

9.10 Huayang Electric

9.10.1 Huayang Electric Details

9.10.2 Huayang Electric Major Business

9.10.3 Huayang Electric Enameled Rectangular Wire Product and Services

- 9.10.4 Huayang Electric Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Huayang Electric Recent Developments/Updates
- 9.10.6 Huayang Electric Competitive Strengths & Weaknesses
- 9.11 Sumitomo Electric
 - 9.11.1 Sumitomo Electric Details
 - 9.11.2 Sumitomo Electric Major Business
 - 9.11.3 Sumitomo Electric Enameled Rectangular Wire Product and Services
 - 9.11.4 Sumitomo Electric Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Sumitomo Electric Recent Developments/Updates
 - 9.11.6 Sumitomo Electric Competitive Strengths & Weaknesses
- 9.12 WELLASCENT ELECTRONIC
 - 9.12.1 WELLASCENT ELECTRONIC Details
 - 9.12.2 WELLASCENT ELECTRONIC Major Business
 - 9.12.3 WELLASCENT ELECTRONIC Enameled Rectangular Wire Product and Services
 - 9.12.4 WELLASCENT ELECTRONIC Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 WELLASCENT ELECTRONIC Recent Developments/Updates
 - 9.12.6 WELLASCENT ELECTRONIC Competitive Strengths & Weaknesses
- 9.13 Jingda
 - 9.13.1 Jingda Details
 - 9.13.2 Jingda Major Business
 - 9.13.3 Jingda Enameled Rectangular Wire Product and Services
 - 9.13.4 Jingda Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Jingda Recent Developments/Updates
 - 9.13.6 Jingda Competitive Strengths & Weaknesses
- 9.14 NINGBO JINTIAN NEW MATERIAL
 - 9.14.1 NINGBO JINTIAN NEW MATERIAL Details
 - 9.14.2 NINGBO JINTIAN NEW MATERIAL Major Business
 - 9.14.3 NINGBO JINTIAN NEW MATERIAL Enameled Rectangular Wire Product and Services
 - 9.14.4 NINGBO JINTIAN NEW MATERIAL Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 NINGBO JINTIAN NEW MATERIAL Recent Developments/Updates
 - 9.14.6 NINGBO JINTIAN NEW MATERIAL Competitive Strengths & Weaknesses
- 9.15 Goldcup Electric Apparatus

- 9.15.1 Goldcup Electric Apparatus Details
- 9.15.2 Goldcup Electric Apparatus Major Business
- 9.15.3 Goldcup Electric Apparatus Enameled Rectangular Wire Product and Services
- 9.15.4 Goldcup Electric Apparatus Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Goldcup Electric Apparatus Recent Developments/Updates
- 9.15.6 Goldcup Electric Apparatus Competitive Strengths & Weaknesses
- 9.16 Grandwall Technology
- 9.16.1 Grandwall Technology Details
- 9.16.2 Grandwall Technology Major Business
- 9.16.3 Grandwall Technology Enameled Rectangular Wire Product and Services
- 9.16.4 Grandwall Technology Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Grandwall Technology Recent Developments/Updates
- 9.16.6 Grandwall Technology Competitive Strengths & Weaknesses
- 9.17 Citychamp Dartong
- 9.17.1 Citychamp Dartong Details
- 9.17.2 Citychamp Dartong Major Business
- 9.17.3 Citychamp Dartong Enameled Rectangular Wire Product and Services
- 9.17.4 Citychamp Dartong Enameled Rectangular Wire Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Citychamp Dartong Recent Developments/Updates
- 9.17.6 Citychamp Dartong Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Enameled Rectangular Wire Industry Chain
- 10.2 Enameled Rectangular Wire Upstream Analysis
 - 10.2.1 Enameled Rectangular Wire Core Raw Materials
 - 10.2.2 Main Manufacturers of Enameled Rectangular Wire Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Enameled Rectangular Wire Production Mode
- 10.6 Enameled Rectangular Wire Procurement Model
- 10.7 Enameled Rectangular Wire Industry Sales Model and Sales Channels
 - 10.7.1 Enameled Rectangular Wire Sales Model
 - 10.7.2 Enameled Rectangular Wire Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Enameled Rectangular Wire Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Enameled Rectangular Wire Production Value by Region (2021-2026) & (USD Million)

Table 3. World Enameled Rectangular Wire Production Value by Region (2027-2032) & (USD Million)

Table 4. World Enameled Rectangular Wire Production Value Market Share by Region (2021-2026)

Table 5. World Enameled Rectangular Wire Production Value Market Share by Region (2027-2032)

Table 6. World Enameled Rectangular Wire Production by Region (2021-2026) & (Tons)

Table 7. World Enameled Rectangular Wire Production by Region (2027-2032) & (Tons)

Table 8. World Enameled Rectangular Wire Production Market Share by Region (2021-2026)

Table 9. World Enameled Rectangular Wire Production Market Share by Region (2027-2032)

Table 10. World Enameled Rectangular Wire Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Enameled Rectangular Wire Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Enameled Rectangular Wire Major Market Trends

Table 13. World Enameled Rectangular Wire Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Enameled Rectangular Wire Consumption by Region (2021-2026) & (Tons)

Table 15. World Enameled Rectangular Wire Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Enameled Rectangular Wire Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Enameled Rectangular Wire Producers in 2025

Table 18. World Enameled Rectangular Wire Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Enameled Rectangular Wire Producers in 2025

Table 20. World Enameled Rectangular Wire Average Price by Manufacturer (2021-2026) & (US\$/Ton)
Table 21. Global Enameled Rectangular Wire Company Evaluation Quadrant
Table 22. World Enameled Rectangular Wire Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Enameled Rectangular Wire Production Site of Key Manufacturer
Table 24. Enameled Rectangular Wire Market: Company Product Type Footprint
Table 25. Enameled Rectangular Wire Market: Company Product Application Footprint
Table 26. Enameled Rectangular Wire Competitive Factors
Table 27. Enameled Rectangular Wire New Entrant and Capacity Expansion Plans
Table 28. Enameled Rectangular Wire Mergers & Acquisitions Activity
Table 29. United States VS China Enameled Rectangular Wire Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Enameled Rectangular Wire Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China Enameled Rectangular Wire Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based Enameled Rectangular Wire Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Enameled Rectangular Wire Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Enameled Rectangular Wire Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Enameled Rectangular Wire Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers Enameled Rectangular Wire Production Market Share (2021-2026)
Table 37. China Based Enameled Rectangular Wire Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Enameled Rectangular Wire Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Enameled Rectangular Wire Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Enameled Rectangular Wire Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Enameled Rectangular Wire Production Market Share (2021-2026)
Table 42. Rest of World Based Enameled Rectangular Wire Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Enameled Rectangular Wire Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Enameled Rectangular Wire Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Enameled Rectangular Wire Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Enameled Rectangular Wire Production Market Share (2021-2026)

Table 47. World Enameled Rectangular Wire Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Enameled Rectangular Wire Production by Type (2021-2026) & (Tons)

Table 49. World Enameled Rectangular Wire Production by Type (2027-2032) & (Tons)

Table 50. World Enameled Rectangular Wire Production Value by Type (2021-2026) & (USD Million)

Table 51. World Enameled Rectangular Wire Production Value by Type (2027-2032) & (USD Million)

Table 52. World Enameled Rectangular Wire Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Enameled Rectangular Wire Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Enameled Rectangular Wire Production Value by Insulation Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Enameled Rectangular Wire Production by Insulation Type (2021-2026) & (Tons)

Table 56. World Enameled Rectangular Wire Production by Insulation Type (2027-2032) & (Tons)

Table 57. World Enameled Rectangular Wire Production Value by Insulation Type (2021-2026) & (USD Million)

Table 58. World Enameled Rectangular Wire Production Value by Insulation Type (2027-2032) & (USD Million)

Table 59. World Enameled Rectangular Wire Average Price by Insulation Type (2021-2026) & (US\$/Ton)

Table 60. World Enameled Rectangular Wire Average Price by Insulation Type (2027-2032) & (US\$/Ton)

Table 61. World Enameled Rectangular Wire Production Value by Thermal Class, (USD Million), 2021 & 2025 & 2032

Table 62. World Enameled Rectangular Wire Production by Thermal Class (2021-2026) & (Tons)

Table 63. World Enameled Rectangular Wire Production by Thermal Class (2027-2032) & (Tons)

Table 64. World Enameled Rectangular Wire Production Value by Thermal Class (2021-2026) & (USD Million)

Table 65. World Enameled Rectangular Wire Production Value by Thermal Class (2027-2032) & (USD Million)

Table 66. World Enameled Rectangular Wire Average Price by Thermal Class (2021-2026) & (US\$/Ton)

Table 67. World Enameled Rectangular Wire Average Price by Thermal Class (2027-2032) & (US\$/Ton)

Table 68. World Enameled Rectangular Wire Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Enameled Rectangular Wire Production by Application (2021-2026) & (Tons)

Table 70. World Enameled Rectangular Wire Production by Application (2027-2032) & (Tons)

Table 71. World Enameled Rectangular Wire Production Value by Application (2021-2026) & (USD Million)

Table 72. World Enameled Rectangular Wire Production Value by Application (2027-2032) & (USD Million)

Table 73. World Enameled Rectangular Wire Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Enameled Rectangular Wire Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Elantas Basic Information, Manufacturing Base and Competitors

Table 76. Elantas Major Business

Table 77. Elantas Enameled Rectangular Wire Product and Services

Table 78. Elantas Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Elantas Recent Developments/Updates

Table 80. Elantas Competitive Strengths & Weaknesses

Table 81. Dahr?n Basic Information, Manufacturing Base and Competitors

Table 82. Dahr?n Major Business

Table 83. Dahr?n Enameled Rectangular Wire Product and Services

Table 84. Dahr?n Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Dahr?n Recent Developments/Updates

Table 86. Dahr?n Competitive Strengths & Weaknesses

Table 87. Von Roll Basic Information, Manufacturing Base and Competitors

Table 88. Von Roll Major Business

Table 89. Von Roll Enameled Rectangular Wire Product and Services

Table 90. Von Roll Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Von Roll Recent Developments/Updates

Table 92. Von Roll Competitive Strengths & Weaknesses

Table 93. Essex Solutions Basic Information, Manufacturing Base and Competitors

Table 94. Essex Solutions Major Business

Table 95. Essex Solutions Enameled Rectangular Wire Product and Services

Table 96. Essex Solutions Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Essex Solutions Recent Developments/Updates

Table 98. Essex Solutions Competitive Strengths & Weaknesses

Table 99. KSH International Basic Information, Manufacturing Base and Competitors

Table 100. KSH International Major Business

Table 101. KSH International Enameled Rectangular Wire Product and Services

Table 102. KSH International Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. KSH International Recent Developments/Updates

Table 104. KSH International Competitive Strengths & Weaknesses

Table 105. Tonytech Basic Information, Manufacturing Base and Competitors

Table 106. Tonytech Major Business

Table 107. Tonytech Enameled Rectangular Wire Product and Services

Table 108. Tonytech Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Tonytech Recent Developments/Updates

Table 110. Tonytech Competitive Strengths & Weaknesses

Table 111. Hubei Zhongke Huaye New Material Basic Information, Manufacturing Base and Competitors

Table 112. Hubei Zhongke Huaye New Material Major Business

Table 113. Hubei Zhongke Huaye New Material Enameled Rectangular Wire Product and Services

Table 114. Hubei Zhongke Huaye New Material Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hubei Zhongke Huaye New Material Recent Developments/Updates

Table 116. Hubei Zhongke Huaye New Material Competitive Strengths & Weaknesses

Table 117. Guangdong Songtian Technology Basic Information, Manufacturing Base and Competitors

Table 118. Guangdong Songtian Technology Major Business

Table 119. Guangdong Songtian Technology Enameled Rectangular Wire Product and Services

Table 120. Guangdong Songtian Technology Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Guangdong Songtian Technology Recent Developments/Updates

Table 122. Guangdong Songtian Technology Competitive Strengths & Weaknesses

Table 123. Darun Basic Information, Manufacturing Base and Competitors

Table 124. Darun Major Business

Table 125. Darun Enameled Rectangular Wire Product and Services

Table 126. Darun Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Darun Recent Developments/Updates

Table 128. Darun Competitive Strengths & Weaknesses

Table 129. Huayang Electric Basic Information, Manufacturing Base and Competitors

Table 130. Huayang Electric Major Business

Table 131. Huayang Electric Enameled Rectangular Wire Product and Services

Table 132. Huayang Electric Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Huayang Electric Recent Developments/Updates

Table 134. Huayang Electric Competitive Strengths & Weaknesses

Table 135. Sumitomo Electric Basic Information, Manufacturing Base and Competitors

Table 136. Sumitomo Electric Major Business

Table 137. Sumitomo Electric Enameled Rectangular Wire Product and Services

Table 138. Sumitomo Electric Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Sumitomo Electric Recent Developments/Updates

Table 140. Sumitomo Electric Competitive Strengths & Weaknesses

Table 141. WELLASCENT ELECTRONIC Basic Information, Manufacturing Base and Competitors

Table 142. WELLASCENT ELECTRONIC Major Business

Table 143. WELLASCENT ELECTRONIC Enameled Rectangular Wire Product and Services

Table 144. WELLASCENT ELECTRONIC Enameled Rectangular Wire Production

(Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. WELLASCENT ELECTRONIC Recent Developments/Updates

Table 146. WELLASCENT ELECTRONIC Competitive Strengths & Weaknesses

Table 147. Jingda Basic Information, Manufacturing Base and Competitors

Table 148. Jingda Major Business

Table 149. Jingda Enameled Rectangular Wire Product and Services

Table 150. Jingda Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Jingda Recent Developments/Updates

Table 152. Jingda Competitive Strengths & Weaknesses

Table 153. NINGBO JINTIAN NEW MATERIAL Basic Information, Manufacturing Base and Competitors

Table 154. NINGBO JINTIAN NEW MATERIAL Major Business

Table 155. NINGBO JINTIAN NEW MATERIAL Enameled Rectangular Wire Product and Services

Table 156. NINGBO JINTIAN NEW MATERIAL Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. NINGBO JINTIAN NEW MATERIAL Recent Developments/Updates

Table 158. NINGBO JINTIAN NEW MATERIAL Competitive Strengths & Weaknesses

Table 159. Goldcup Electric Apparatus Basic Information, Manufacturing Base and Competitors

Table 160. Goldcup Electric Apparatus Major Business

Table 161. Goldcup Electric Apparatus Enameled Rectangular Wire Product and Services

Table 162. Goldcup Electric Apparatus Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Goldcup Electric Apparatus Recent Developments/Updates

Table 164. Goldcup Electric Apparatus Competitive Strengths & Weaknesses

Table 165. Grandwall Technology Basic Information, Manufacturing Base and Competitors

Table 166. Grandwall Technology Major Business

Table 167. Grandwall Technology Enameled Rectangular Wire Product and Services

Table 168. Grandwall Technology Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Grandwall Technology Recent Developments/Updates

Table 170. Grandwall Technology Competitive Strengths & Weaknesses

Table 171. Citychamp Dartong Basic Information, Manufacturing Base and Competitors

Table 172. Citychamp Dartong Major Business

Table 173. Citychamp Dartong Enameled Rectangular Wire Product and Services

Table 174. Citychamp Dartong Enameled Rectangular Wire Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Citychamp Dartong Recent Developments/Updates

Table 176. Citychamp Dartong Competitive Strengths & Weaknesses

Table 177. Global Key Players of Enameled Rectangular Wire Upstream (Raw Materials)

Table 178. Global Enameled Rectangular Wire Typical Customers

Table 179. Enameled Rectangular Wire Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Enameled Rectangular Wire Picture

Figure 2. World Enameled Rectangular Wire Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Enameled Rectangular Wire Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Enameled Rectangular Wire Production (2021-2032) & (Tons)

Figure 5. World Enameled Rectangular Wire Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Enameled Rectangular Wire Production Value Market Share by Region (2021-2032)

Figure 7. World Enameled Rectangular Wire Production Market Share by Region (2021-2032)

Figure 8. North America Enameled Rectangular Wire Production (2021-2032) & (Tons)

Figure 9. Europe Enameled Rectangular Wire Production (2021-2032) & (Tons)

Figure 10. China Enameled Rectangular Wire Production (2021-2032) & (Tons)

Figure 11. Japan Enameled Rectangular Wire Production (2021-2032) & (Tons)

Figure 12. Enameled Rectangular Wire Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 15. World Enameled Rectangular Wire Consumption Market Share by Region (2021-2032)

Figure 16. United States Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 17. China Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 18. Europe Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 19. Japan Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 20. South Korea Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 22. India Enameled Rectangular Wire Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Enameled Rectangular Wire by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Enameled Rectangular Wire Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Enameled Rectangular Wire Markets in 2025

Figure 26. United States VS China: Enameled Rectangular Wire Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Enameled Rectangular Wire Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Enameled Rectangular Wire Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Enameled Rectangular Wire Production Market Share 2025

Figure 30. China Based Manufacturers Enameled Rectangular Wire Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Enameled Rectangular Wire Production Market Share 2025

Figure 32. World Enameled Rectangular Wire Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Enameled Rectangular Wire Production Value Market Share by Type in 2025

Figure 34. Copper

Figure 35. Aluminum

Figure 36. World Enameled Rectangular Wire Production Market Share by Type (2021-2032)

Figure 37. World Enameled Rectangular Wire Production Value Market Share by Type (2021-2032)

Figure 38. World Enameled Rectangular Wire Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Enameled Rectangular Wire Production Value by Insulation Type, (USD Million), 2021 & 2025 & 2032

Figure 40. World Enameled Rectangular Wire Production Value Market Share by Insulation Type in 2025

Figure 41. Polyester

Figure 42. Polyimide

Figure 43. Polyurethane

Figure 44. Others

Figure 45. World Enameled Rectangular Wire Production Market Share by Insulation Type (2021-2032)

Figure 46. World Enameled Rectangular Wire Production Value Market Share by Insulation Type (2021-2032)

Figure 47. World Enameled Rectangular Wire Average Price by Insulation Type (2021-2032) & (US\$/Ton)

Figure 48. World Enameled Rectangular Wire Production Value by Thermal Class,

(USD Million), 2021 & 2025 & 2032

Figure 49. World Enameled Rectangular Wire Production Value Market Share by Thermal Class in 2025

Figure 50. Class B (130 °C)

Figure 51. Class F (155 °C)

Figure 52. Class H (180 °C)

Figure 53. Other

Figure 54. World Enameled Rectangular Wire Production Market Share by Thermal Class (2021-2032)

Figure 55. World Enameled Rectangular Wire Production Value Market Share by Thermal Class (2021-2032)

Figure 56. World Enameled Rectangular Wire Average Price by Thermal Class (2021-2032) & (US\$/Ton)

Figure 57. World Enameled Rectangular Wire Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Enameled Rectangular Wire Production Value Market Share by Application in 2025

Figure 59. Motors

Figure 60. Transformers

Figure 61. Inductors

Figure 62. Others

Figure 63. World Enameled Rectangular Wire Production Market Share by Application (2021-2032)

Figure 64. World Enameled Rectangular Wire Production Value Market Share by Application (2021-2032)

Figure 65. World Enameled Rectangular Wire Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Enameled Rectangular Wire Industry Chain

Figure 67. Enameled Rectangular Wire Procurement Model

Figure 68. Enameled Rectangular Wire Sales Model

Figure 69. Enameled Rectangular Wire Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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