

# Global Amorphous Metal Cores Market Research Report 2024(Status and Outlook)

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## Abstracts

### Report Overview:

The amorphous alloy is a non-crystal substance created by rapidly freezing liquids of high temperature. Because there is no rule of atomic arrangement, the energy loss (hysteresis loss) is small when the flux of magnetic induction passes through the iron core. In addition, eddy current loss is decreased because the thickness is approximately 0.03 mm, which is about 1/10 compared with silicon steel. Therefore, the no load loss (eddy current loss and hysteresis loss) can be decreased to about 1/5 of silicon steel's.

Amorphous metal is an alloy with a non-crystalline structure produced by ultra-rapid quenching (about 1 million ? per second) of molten alloy. Because amorphous metal has no anisotropic properties, which originated from a crystalline structure, and there are no crystalline grain boundaries to prevent motion of magnetic domain walls, it shows excellent magnetic properties such as high permeability and low loss while having a high-saturation magnetic flux density.

Amorphous metal cores are effective for most distribution transformers. They are ideally suited for renewable energy applications such as wind farm and solar power, as they typically operate with 20~40% low load conditions. Amorphous metal cores have been in use for over 20 years in liquid-filled transformers, and this technology is now being applied to dry type transformers.

Historically, there was an initial interest in amorphous core transformers which stemmed from the first oil shock in the mid-1970s when improved energy efficiency in power distribution systems was increasingly desirable. This interest fell away in the mid-1990s when energy costs decreased. Furthermore, the initial costs of an amorphous core

transformer are higher than of a crystalline silicon steel core transformer: first, the amorphous material itself is more expensive than crystalline silicon steel and second, the saturation magnetic flux density of amorphous steel is lower than that of silicon steel. This means larger sizes of amorphous core transformers are required, which results in a higher cost per unit. However, the higher initial costs can be compensated by lower operating costs over the lifetime of the transformers due to their increased energy efficiency.

Nowadays, amorphous metal core transformers have become commercially available and are cost-competitive with conventional core transformers. There has also been significant technical progress in increasing the saturation magnetic flux density of iron-based amorphous alloys, resulting in smaller transformers and reduced material costs.

The amorphous metal used in transformer cores is a unique alloy of Fe–Si–B (iron, silicon and boron) that is produced by extremely rapid solidification from the alloy melt. This causes the metal atoms to form a random pattern, as opposed to conventional Cold-Rolled Grain-Oriented (CRGO) silicon steel (a Fe–Si alloy), which has an organized crystalline structure. The amorphous structure, usually associated with non-metallic systems looks like glass - which has prompted the name 'glassy metal' widely used for such materials.

The absence of a crystalline structure in amorphous metal allows easy magnetization of the material, leading to lower hysteresis losses. The eddy current losses are also lower in amorphous metal due to a combination of its low thickness and a high electrical resistivity of 130  $\mu\Omega$ -cm compared to the 51  $\mu\Omega$ -cm in CRGO silicon steels. Thus, amorphous metal has a much lower total loss than even the best grades of CRGO steel, by up to 70 percent.

Amorphous metal cores have a proven track-record of over 20 years in liquid-filled transformers and this technology is now being applied to dry-type transformers.

The Global Amorphous Metal Cores Market Size was estimated at USD 897.64 million in 2023 and is projected to reach USD 1302.43 million by 2029, exhibiting a CAGR of 6.40% during the forecast period.

This report provides a deep insight into the global Amorphous Metal Cores market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces

analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Amorphous Metal Cores Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Amorphous Metal Cores market in any manner.

### Global Amorphous Metal Cores Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### Key Company

Hitachi

Advanced Technology

Zhixin Electric

Zhaojing Incorporated

Qingdao Yunlu

Foshan Catech

ENPAY

Mangal

Kotsons

UAML

TI-Electronic

Market Segmentation (by Type)

C Core

E Core

Others

Market Segmentation (by Application)

Transformer

Inverter

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### Key Benefits of This Market Research:

- Industry drivers, restraints, and opportunities covered in the study
- Neutral perspective on the market performance
- Recent industry trends and developments
- Competitive landscape & strategies of key players
- Potential & niche segments and regions exhibiting promising growth covered
- Historical, current, and projected market size, in terms of value
- In-depth analysis of the Amorphous Metal Cores Market
- Overview of the regional outlook of the Amorphous Metal Cores Market:

### Key Reasons to Buy this Report:

- Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
- This enables you to anticipate market changes to remain ahead of your competitors
- You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
- The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
- Provision of market value (USD Billion) data for each segment and sub-segment
- Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Amorphous Metal Cores Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.



## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

1.1 Market Definition and Statistical Scope of Amorphous Metal Cores

1.2 Key Market Segments

1.2.1 Amorphous Metal Cores Segment by Type

1.2.2 Amorphous Metal Cores Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

### **2 AMORPHOUS METAL CORES MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global Amorphous Metal Cores Market Size (M USD) Estimates and Forecasts (2019-2030)

2.1.2 Global Amorphous Metal Cores Sales Estimates and Forecasts (2019-2030)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 AMORPHOUS METAL CORES MARKET COMPETITIVE LANDSCAPE**

3.1 Global Amorphous Metal Cores Sales by Manufacturers (2019-2024)

3.2 Global Amorphous Metal Cores Revenue Market Share by Manufacturers (2019-2024)

3.3 Amorphous Metal Cores Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Amorphous Metal Cores Average Price by Manufacturers (2019-2024)

3.5 Manufacturers Amorphous Metal Cores Sales Sites, Area Served, Product Type

3.6 Amorphous Metal Cores Market Competitive Situation and Trends

3.6.1 Amorphous Metal Cores Market Concentration Rate

3.6.2 Global 5 and 10 Largest Amorphous Metal Cores Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

### **4 AMORPHOUS METAL CORES INDUSTRY CHAIN ANALYSIS**

- 4.1 Amorphous Metal Cores Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF AMORPHOUS METAL CORES MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
  - 5.5.1 New Product Developments
  - 5.5.2 Mergers & Acquisitions
  - 5.5.3 Expansions
  - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

## **6 AMORPHOUS METAL CORES MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Amorphous Metal Cores Sales Market Share by Type (2019-2024)
- 6.3 Global Amorphous Metal Cores Market Size Market Share by Type (2019-2024)
- 6.4 Global Amorphous Metal Cores Price by Type (2019-2024)

## **7 AMORPHOUS METAL CORES MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Amorphous Metal Cores Market Sales by Application (2019-2024)
- 7.3 Global Amorphous Metal Cores Market Size (M USD) by Application (2019-2024)
- 7.4 Global Amorphous Metal Cores Sales Growth Rate by Application (2019-2024)

## **8 AMORPHOUS METAL CORES MARKET SEGMENTATION BY REGION**

- 8.1 Global Amorphous Metal Cores Sales by Region
  - 8.1.1 Global Amorphous Metal Cores Sales by Region
  - 8.1.2 Global Amorphous Metal Cores Sales Market Share by Region

## 8.2 North America

### 8.2.1 North America Amorphous Metal Cores Sales by Country

#### 8.2.2 U.S.

#### 8.2.3 Canada

#### 8.2.4 Mexico

## 8.3 Europe

### 8.3.1 Europe Amorphous Metal Cores Sales by Country

#### 8.3.2 Germany

#### 8.3.3 France

#### 8.3.4 U.K.

#### 8.3.5 Italy

#### 8.3.6 Russia

## 8.4 Asia Pacific

### 8.4.1 Asia Pacific Amorphous Metal Cores Sales by Region

#### 8.4.2 China

#### 8.4.3 Japan

#### 8.4.4 South Korea

#### 8.4.5 India

#### 8.4.6 Southeast Asia

## 8.5 South America

### 8.5.1 South America Amorphous Metal Cores Sales by Country

#### 8.5.2 Brazil

#### 8.5.3 Argentina

#### 8.5.4 Columbia

## 8.6 Middle East and Africa

### 8.6.1 Middle East and Africa Amorphous Metal Cores Sales by Region

#### 8.6.2 Saudi Arabia

#### 8.6.3 UAE

#### 8.6.4 Egypt

#### 8.6.5 Nigeria

#### 8.6.6 South Africa

## 9 KEY COMPANIES PROFILE

### 9.1 Hitachi

#### 9.1.1 Hitachi Amorphous Metal Cores Basic Information

#### 9.1.2 Hitachi Amorphous Metal Cores Product Overview

#### 9.1.3 Hitachi Amorphous Metal Cores Product Market Performance

#### 9.1.4 Hitachi Business Overview

- 9.1.5 Hitachi Amorphous Metal Cores SWOT Analysis
- 9.1.6 Hitachi Recent Developments
- 9.2 Advanced Technology
  - 9.2.1 Advanced Technology Amorphous Metal Cores Basic Information
  - 9.2.2 Advanced Technology Amorphous Metal Cores Product Overview
  - 9.2.3 Advanced Technology Amorphous Metal Cores Product Market Performance
  - 9.2.4 Advanced Technology Business Overview
  - 9.2.5 Advanced Technology Amorphous Metal Cores SWOT Analysis
  - 9.2.6 Advanced Technology Recent Developments
- 9.3 Zhixin Electric
  - 9.3.1 Zhixin Electric Amorphous Metal Cores Basic Information
  - 9.3.2 Zhixin Electric Amorphous Metal Cores Product Overview
  - 9.3.3 Zhixin Electric Amorphous Metal Cores Product Market Performance
  - 9.3.4 Zhixin Electric Amorphous Metal Cores SWOT Analysis
  - 9.3.5 Zhixin Electric Business Overview
  - 9.3.6 Zhixin Electric Recent Developments
- 9.4 Zhaojing Incorporated
  - 9.4.1 Zhaojing Incorporated Amorphous Metal Cores Basic Information
  - 9.4.2 Zhaojing Incorporated Amorphous Metal Cores Product Overview
  - 9.4.3 Zhaojing Incorporated Amorphous Metal Cores Product Market Performance
  - 9.4.4 Zhaojing Incorporated Business Overview
  - 9.4.5 Zhaojing Incorporated Recent Developments
- 9.5 Qingdao Yunlu
  - 9.5.1 Qingdao Yunlu Amorphous Metal Cores Basic Information
  - 9.5.2 Qingdao Yunlu Amorphous Metal Cores Product Overview
  - 9.5.3 Qingdao Yunlu Amorphous Metal Cores Product Market Performance
  - 9.5.4 Qingdao Yunlu Business Overview
  - 9.5.5 Qingdao Yunlu Recent Developments
- 9.6 Foshan Catech
  - 9.6.1 Foshan Catech Amorphous Metal Cores Basic Information
  - 9.6.2 Foshan Catech Amorphous Metal Cores Product Overview
  - 9.6.3 Foshan Catech Amorphous Metal Cores Product Market Performance
  - 9.6.4 Foshan Catech Business Overview
  - 9.6.5 Foshan Catech Recent Developments
- 9.7 ENPAY
  - 9.7.1 ENPAY Amorphous Metal Cores Basic Information
  - 9.7.2 ENPAY Amorphous Metal Cores Product Overview
  - 9.7.3 ENPAY Amorphous Metal Cores Product Market Performance
  - 9.7.4 ENPAY Business Overview

#### 9.7.5 ENPAY Recent Developments

### 9.8 Mangal

#### 9.8.1 Mangal Amorphous Metal Cores Basic Information

#### 9.8.2 Mangal Amorphous Metal Cores Product Overview

#### 9.8.3 Mangal Amorphous Metal Cores Product Market Performance

#### 9.8.4 Mangal Business Overview

#### 9.8.5 Mangal Recent Developments

### 9.9 Kotsons

#### 9.9.1 Kotsons Amorphous Metal Cores Basic Information

#### 9.9.2 Kotsons Amorphous Metal Cores Product Overview

#### 9.9.3 Kotsons Amorphous Metal Cores Product Market Performance

#### 9.9.4 Kotsons Business Overview

#### 9.9.5 Kotsons Recent Developments

### 9.10 UAML

#### 9.10.1 UAML Amorphous Metal Cores Basic Information

#### 9.10.2 UAML Amorphous Metal Cores Product Overview

#### 9.10.3 UAML Amorphous Metal Cores Product Market Performance

#### 9.10.4 UAML Business Overview

#### 9.10.5 UAML Recent Developments

### 9.11 TI-Electronic

#### 9.11.1 TI-Electronic Amorphous Metal Cores Basic Information

#### 9.11.2 TI-Electronic Amorphous Metal Cores Product Overview

#### 9.11.3 TI-Electronic Amorphous Metal Cores Product Market Performance

#### 9.11.4 TI-Electronic Business Overview

#### 9.11.5 TI-Electronic Recent Developments

## **10 AMORPHOUS METAL CORES MARKET FORECAST BY REGION**

### 10.1 Global Amorphous Metal Cores Market Size Forecast

### 10.2 Global Amorphous Metal Cores Market Forecast by Region

#### 10.2.1 North America Market Size Forecast by Country

#### 10.2.2 Europe Amorphous Metal Cores Market Size Forecast by Country

#### 10.2.3 Asia Pacific Amorphous Metal Cores Market Size Forecast by Region

#### 10.2.4 South America Amorphous Metal Cores Market Size Forecast by Country

#### 10.2.5 Middle East and Africa Forecasted Consumption of Amorphous Metal Cores by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)**

- 11.1 Global Amorphous Metal Cores Market Forecast by Type (2025-2030)
  - 11.1.1 Global Forecasted Sales of Amorphous Metal Cores by Type (2025-2030)
  - 11.1.2 Global Amorphous Metal Cores Market Size Forecast by Type (2025-2030)
  - 11.1.3 Global Forecasted Price of Amorphous Metal Cores by Type (2025-2030)
- 11.2 Global Amorphous Metal Cores Market Forecast by Application (2025-2030)
  - 11.2.1 Global Amorphous Metal Cores Sales (Kilotons) Forecast by Application
  - 11.2.2 Global Amorphous Metal Cores Market Size (M USD) Forecast by Application (2025-2030)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Amorphous Metal Cores Market Size Comparison by Region (M USD)

Table 5. Global Amorphous Metal Cores Sales (Kilotons) by Manufacturers (2019-2024)

Table 6. Global Amorphous Metal Cores Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Amorphous Metal Cores Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Amorphous Metal Cores Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Amorphous Metal Cores as of 2022)

Table 10. Global Market Amorphous Metal Cores Average Price (USD/Ton) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Amorphous Metal Cores Sales Sites and Area Served

Table 12. Manufacturers Amorphous Metal Cores Product Type

Table 13. Global Amorphous Metal Cores Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Amorphous Metal Cores

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Amorphous Metal Cores Market Challenges

Table 22. Global Amorphous Metal Cores Sales by Type (Kilotons)

Table 23. Global Amorphous Metal Cores Market Size by Type (M USD)

Table 24. Global Amorphous Metal Cores Sales (Kilotons) by Type (2019-2024)

Table 25. Global Amorphous Metal Cores Sales Market Share by Type (2019-2024)

Table 26. Global Amorphous Metal Cores Market Size (M USD) by Type (2019-2024)

Table 27. Global Amorphous Metal Cores Market Size Share by Type (2019-2024)

Table 28. Global Amorphous Metal Cores Price (USD/Ton) by Type (2019-2024)

Table 29. Global Amorphous Metal Cores Sales (Kilotons) by Application

Table 30. Global Amorphous Metal Cores Market Size by Application

Table 31. Global Amorphous Metal Cores Sales by Application (2019-2024) & (Kilotons)

Table 32. Global Amorphous Metal Cores Sales Market Share by Application (2019-2024)

Table 33. Global Amorphous Metal Cores Sales by Application (2019-2024) & (M USD)

Table 34. Global Amorphous Metal Cores Market Share by Application (2019-2024)

Table 35. Global Amorphous Metal Cores Sales Growth Rate by Application (2019-2024)

Table 36. Global Amorphous Metal Cores Sales by Region (2019-2024) & (Kilotons)

Table 37. Global Amorphous Metal Cores Sales Market Share by Region (2019-2024)

Table 38. North America Amorphous Metal Cores Sales by Country (2019-2024) & (Kilotons)

Table 39. Europe Amorphous Metal Cores Sales by Country (2019-2024) & (Kilotons)

Table 40. Asia Pacific Amorphous Metal Cores Sales by Region (2019-2024) & (Kilotons)

Table 41. South America Amorphous Metal Cores Sales by Country (2019-2024) & (Kilotons)

Table 42. Middle East and Africa Amorphous Metal Cores Sales by Region (2019-2024) & (Kilotons)

Table 43. Hitachi Amorphous Metal Cores Basic Information

Table 44. Hitachi Amorphous Metal Cores Product Overview

Table 45. Hitachi Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 46. Hitachi Business Overview

Table 47. Hitachi Amorphous Metal Cores SWOT Analysis

Table 48. Hitachi Recent Developments

Table 49. Advanced Technology Amorphous Metal Cores Basic Information

Table 50. Advanced Technology Amorphous Metal Cores Product Overview

Table 51. Advanced Technology Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 52. Advanced Technology Business Overview

Table 53. Advanced Technology Amorphous Metal Cores SWOT Analysis

Table 54. Advanced Technology Recent Developments

Table 55. Zhixin Electric Amorphous Metal Cores Basic Information

Table 56. Zhixin Electric Amorphous Metal Cores Product Overview

Table 57. Zhixin Electric Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 58. Zhixin Electric Amorphous Metal Cores SWOT Analysis

Table 59. Zhixin Electric Business Overview

Table 60. Zhixin Electric Recent Developments



- Table 61. Zhaojing Incorporated Amorphous Metal Cores Basic Information
- Table 62. Zhaojing Incorporated Amorphous Metal Cores Product Overview
- Table 63. Zhaojing Incorporated Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 64. Zhaojing Incorporated Business Overview
- Table 65. Zhaojing Incorporated Recent Developments
- Table 66. Qingdao Yunlu Amorphous Metal Cores Basic Information
- Table 67. Qingdao Yunlu Amorphous Metal Cores Product Overview
- Table 68. Qingdao Yunlu Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 69. Qingdao Yunlu Business Overview
- Table 70. Qingdao Yunlu Recent Developments
- Table 71. Foshan Catech Amorphous Metal Cores Basic Information
- Table 72. Foshan Catech Amorphous Metal Cores Product Overview
- Table 73. Foshan Catech Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 74. Foshan Catech Business Overview
- Table 75. Foshan Catech Recent Developments
- Table 76. ENPAY Amorphous Metal Cores Basic Information
- Table 77. ENPAY Amorphous Metal Cores Product Overview
- Table 78. ENPAY Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 79. ENPAY Business Overview
- Table 80. ENPAY Recent Developments
- Table 81. Mangal Amorphous Metal Cores Basic Information
- Table 82. Mangal Amorphous Metal Cores Product Overview
- Table 83. Mangal Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 84. Mangal Business Overview
- Table 85. Mangal Recent Developments
- Table 86. Kotsons Amorphous Metal Cores Basic Information
- Table 87. Kotsons Amorphous Metal Cores Product Overview
- Table 88. Kotsons Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 89. Kotsons Business Overview
- Table 90. Kotsons Recent Developments
- Table 91. UAML Amorphous Metal Cores Basic Information
- Table 92. UAML Amorphous Metal Cores Product Overview
- Table 93. UAML Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price

(USD/Ton) and Gross Margin (2019-2024)

Table 94. UAML Business Overview

Table 95. UAML Recent Developments

Table 96. TI-Electronic Amorphous Metal Cores Basic Information

Table 97. TI-Electronic Amorphous Metal Cores Product Overview

Table 98. TI-Electronic Amorphous Metal Cores Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 99. TI-Electronic Business Overview

Table 100. TI-Electronic Recent Developments

Table 101. Global Amorphous Metal Cores Sales Forecast by Region (2025-2030) & (Kilotons)

Table 102. Global Amorphous Metal Cores Market Size Forecast by Region (2025-2030) & (M USD)

Table 103. North America Amorphous Metal Cores Sales Forecast by Country (2025-2030) & (Kilotons)

Table 104. North America Amorphous Metal Cores Market Size Forecast by Country (2025-2030) & (M USD)

Table 105. Europe Amorphous Metal Cores Sales Forecast by Country (2025-2030) & (Kilotons)

Table 106. Europe Amorphous Metal Cores Market Size Forecast by Country (2025-2030) & (M USD)

Table 107. Asia Pacific Amorphous Metal Cores Sales Forecast by Region (2025-2030) & (Kilotons)

Table 108. Asia Pacific Amorphous Metal Cores Market Size Forecast by Region (2025-2030) & (M USD)

Table 109. South America Amorphous Metal Cores Sales Forecast by Country (2025-2030) & (Kilotons)

Table 110. South America Amorphous Metal Cores Market Size Forecast by Country (2025-2030) & (M USD)

Table 111. Middle East and Africa Amorphous Metal Cores Consumption Forecast by Country (2025-2030) & (Units)

Table 112. Middle East and Africa Amorphous Metal Cores Market Size Forecast by Country (2025-2030) & (M USD)

Table 113. Global Amorphous Metal Cores Sales Forecast by Type (2025-2030) & (Kilotons)

Table 114. Global Amorphous Metal Cores Market Size Forecast by Type (2025-2030) & (M USD)

Table 115. Global Amorphous Metal Cores Price Forecast by Type (2025-2030) & (USD/Ton)

Table 116. Global Amorphous Metal Cores Sales (Kilotons) Forecast by Application (2025-2030)

Table 117. Global Amorphous Metal Cores Market Size Forecast by Application (2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Amorphous Metal Cores
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Amorphous Metal Cores Market Size (M USD), 2019-2030
- Figure 5. Global Amorphous Metal Cores Market Size (M USD) (2019-2030)
- Figure 6. Global Amorphous Metal Cores Sales (Kilotons) & (2019-2030)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Amorphous Metal Cores Market Size by Country (M USD)
- Figure 11. Amorphous Metal Cores Sales Share by Manufacturers in 2023
- Figure 12. Global Amorphous Metal Cores Revenue Share by Manufacturers in 2023
- Figure 13. Amorphous Metal Cores Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Amorphous Metal Cores Average Price (USD/Ton) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Amorphous Metal Cores Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Amorphous Metal Cores Market Share by Type
- Figure 18. Sales Market Share of Amorphous Metal Cores by Type (2019-2024)
- Figure 19. Sales Market Share of Amorphous Metal Cores by Type in 2023
- Figure 20. Market Size Share of Amorphous Metal Cores by Type (2019-2024)
- Figure 21. Market Size Market Share of Amorphous Metal Cores by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Amorphous Metal Cores Market Share by Application
- Figure 24. Global Amorphous Metal Cores Sales Market Share by Application (2019-2024)
- Figure 25. Global Amorphous Metal Cores Sales Market Share by Application in 2023
- Figure 26. Global Amorphous Metal Cores Market Share by Application (2019-2024)
- Figure 27. Global Amorphous Metal Cores Market Share by Application in 2023
- Figure 28. Global Amorphous Metal Cores Sales Growth Rate by Application (2019-2024)
- Figure 29. Global Amorphous Metal Cores Sales Market Share by Region (2019-2024)
- Figure 30. North America Amorphous Metal Cores Sales and Growth Rate (2019-2024)

& (Kilotons)

Figure 31. North America Amorphous Metal Cores Sales Market Share by Country in 2023

Figure 32. U.S. Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 33. Canada Amorphous Metal Cores Sales (Kilotons) and Growth Rate (2019-2024)

Figure 34. Mexico Amorphous Metal Cores Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 36. Europe Amorphous Metal Cores Sales Market Share by Country in 2023

Figure 37. Germany Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 38. France Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 39. U.K. Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 40. Italy Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 41. Russia Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 42. Asia Pacific Amorphous Metal Cores Sales and Growth Rate (Kilotons)

Figure 43. Asia Pacific Amorphous Metal Cores Sales Market Share by Region in 2023

Figure 44. China Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 45. Japan Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 46. South Korea Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 47. India Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 48. Southeast Asia Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 49. South America Amorphous Metal Cores Sales and Growth Rate (Kilotons)

Figure 50. South America Amorphous Metal Cores Sales Market Share by Country in 2023

Figure 51. Brazil Amorphous Metal Cores Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 52. Argentina Amorphous Metal Cores Sales and Growth Rate (2019-2024) &

(Kilotons)

Figure 53. Columbia Amorphous Metal Cores Sales and Growth Rate (2019-2024) &

(Kilotons)

Figure 54. Middle East and Africa Amorphous Metal Cores Sales and Growth Rate

(Kilotons)

Figure 55. Middle East and Africa Amorphous Metal Cores Sales Market Share by  
Region in 2023

Figure 56. Saudi Arabia Amorphous Metal Cores Sales and Growth Rate (2019-2024) &  
(Kilotons)

Figure 57. UAE Amorphous Metal Cores Sales and Growth Rate (2019-2024) &  
(Kilotons)

Figure 58. Egypt Amorphous Metal Cores Sales and Growth Rate (2019-2024) &  
(Kilotons)

Figure 59. Nigeria Amorphous Metal Cores Sales and Growth Rate (2019-2024) &  
(Kilotons)

Figure 60. South Africa Amorphous Metal Cores Sales and Growth Rate (2019-2024) &  
(Kilotons)

Figure 61. Global Amorphous Metal Cores Sales Forecast by Volume (2019-2030) &  
(Kilotons)

Figure 62. Global Amorphous Metal Cores Market Size Forecast by Value (2019-2030)  
& (M USD)

Figure 63. Global Amorphous Metal Cores Sales Market Share Forecast by Type  
(2025-2030)

Figure 64. Global Amorphous Metal Cores Market Share Forecast by Type (2025-2030)

Figure 65. Global Amorphous Metal Cores Sales Forecast by Application (2025-2030)

Figure 66. Global Amorphous Metal Cores Market Share Forecast by Application  
(2025-2030)

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