

Global Amorphous Metal Material Market Growth 2023-2029

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Abstracts

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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.

LPI (LP Information)' newest research report, the "Amorphous Metal Material Industry Forecast" looks at past sales and reviews total world Amorphous Metal Material sales in 2022, providing a comprehensive analysis by region and market sector of projected Amorphous Metal Material sales for 2023 through 2029. With Amorphous Metal Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Amorphous Metal Material industry.

This Insight Report provides a comprehensive analysis of the global Amorphous Metal

Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Amorphous Metal Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Amorphous Metal Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Amorphous Metal Material and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Amorphous Metal Material.

The global Amorphous Metal Material market size is projected to grow from US\$ 819.4 million in 2022 to US\$ 1285 million in 2029; it is expected to grow at a CAGR of 1285 from 2023 to 2029.

The market for amorphous metal core is concentrated with players such as Hitachi, Mangal Electrical Industries, UAML (Usha Amorphous Metals Limited), TI-Electronic, ENPAY, Shanghai Zhixin Electric, Advanced Technology & Materials, Zhaojing Incorporated Company, Qingdao Yunlu Advanced Material Technology, Foshan Catech, Kotsons and so on. Among them, Hitachi is the leader with about 57% revenue market share.

This report presents a comprehensive overview, market shares, and growth opportunities of Amorphous Metal Material market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Amorphous Metal Cores

Amorphous Metal Ribbons

Others

Segmentation by application

Distribution Transformer

Electric Machinery

Electronic Components

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Hitachi

Henan Zhongyue

Junhua Technology

Londerful New Material

Shenke

Foshan Huaxin Microlite Metal

Advanced Technology & Materials

Zhejiang Zhaojing Electrical Company

Qingdao Yunlu Advanced Material Technology

Foshan Catech

Orient Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Amorphous Metal Material market?

What factors are driving Amorphous Metal Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Amorphous Metal Material market opportunities vary by end market size?

How does Amorphous Metal Material break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Amorphous Metal Material Annual Sales 2018-2029
- 2.1.2 World Current & Future Analysis for Amorphous Metal Material by Geographic Region, 2018, 2022 & 2029
- 2.1.3 World Current & Future Analysis for Amorphous Metal Material by Country/Region, 2018, 2022 & 2029

2.2 Amorphous Metal Material Segment by Type

- 2.2.1 Amorphous Metal Cores
- 2.2.2 Amorphous Metal Ribbons
- 2.2.3 Others

2.3 Amorphous Metal Material Sales by Type

- 2.3.1 Global Amorphous Metal Material Sales Market Share by Type (2018-2023)
- 2.3.2 Global Amorphous Metal Material Revenue and Market Share by Type (2018-2023)
- 2.3.3 Global Amorphous Metal Material Sale Price by Type (2018-2023)

2.4 Amorphous Metal Material Segment by Application

- 2.4.1 Distribution Transformer
- 2.4.2 Electric Machinery
- 2.4.3 Electronic Components
- 2.4.4 Others

2.5 Amorphous Metal Material Sales by Application

- 2.5.1 Global Amorphous Metal Material Sale Market Share by Application (2018-2023)
- 2.5.2 Global Amorphous Metal Material Revenue and Market Share by Application (2018-2023)

2.5.3 Global Amorphous Metal Material Sale Price by Application (2018-2023)

3 GLOBAL AMORPHOUS METAL MATERIAL BY COMPANY

3.1 Global Amorphous Metal Material Breakdown Data by Company

3.1.1 Global Amorphous Metal Material Annual Sales by Company (2018-2023)

3.1.2 Global Amorphous Metal Material Sales Market Share by Company (2018-2023)

3.2 Global Amorphous Metal Material Annual Revenue by Company (2018-2023)

3.2.1 Global Amorphous Metal Material Revenue by Company (2018-2023)

3.2.2 Global Amorphous Metal Material Revenue Market Share by Company (2018-2023)

3.3 Global Amorphous Metal Material Sale Price by Company

3.4 Key Manufacturers Amorphous Metal Material Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Amorphous Metal Material Product Location Distribution

3.4.2 Players Amorphous Metal Material Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR AMORPHOUS METAL MATERIAL BY GEOGRAPHIC REGION

4.1 World Historic Amorphous Metal Material Market Size by Geographic Region (2018-2023)

4.1.1 Global Amorphous Metal Material Annual Sales by Geographic Region (2018-2023)

4.1.2 Global Amorphous Metal Material Annual Revenue by Geographic Region (2018-2023)

4.2 World Historic Amorphous Metal Material Market Size by Country/Region (2018-2023)

4.2.1 Global Amorphous Metal Material Annual Sales by Country/Region (2018-2023)

4.2.2 Global Amorphous Metal Material Annual Revenue by Country/Region (2018-2023)

4.3 Americas Amorphous Metal Material Sales Growth

4.4 APAC Amorphous Metal Material Sales Growth

4.5 Europe Amorphous Metal Material Sales Growth

4.6 Middle East & Africa Amorphous Metal Material Sales Growth

5 AMERICAS

5.1 Americas Amorphous Metal Material Sales by Country

5.1.1 Americas Amorphous Metal Material Sales by Country (2018-2023)

5.1.2 Americas Amorphous Metal Material Revenue by Country (2018-2023)

5.2 Americas Amorphous Metal Material Sales by Type

5.3 Americas Amorphous Metal Material Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Amorphous Metal Material Sales by Region

6.1.1 APAC Amorphous Metal Material Sales by Region (2018-2023)

6.1.2 APAC Amorphous Metal Material Revenue by Region (2018-2023)

6.2 APAC Amorphous Metal Material Sales by Type

6.3 APAC Amorphous Metal Material Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Amorphous Metal Material by Country

7.1.1 Europe Amorphous Metal Material Sales by Country (2018-2023)

7.1.2 Europe Amorphous Metal Material Revenue by Country (2018-2023)

7.2 Europe Amorphous Metal Material Sales by Type

7.3 Europe Amorphous Metal Material Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Amorphous Metal Material by Country

8.1.1 Middle East & Africa Amorphous Metal Material Sales by Country (2018-2023)

8.1.2 Middle East & Africa Amorphous Metal Material Revenue by Country
(2018-2023)

8.2 Middle East & Africa Amorphous Metal Material Sales by Type

8.3 Middle East & Africa Amorphous Metal Material Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Amorphous Metal Material

10.3 Manufacturing Process Analysis of Amorphous Metal Material

10.4 Industry Chain Structure of Amorphous Metal Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Amorphous Metal Material Distributors

11.3 Amorphous Metal Material Customer

12 WORLD FORECAST REVIEW FOR AMORPHOUS METAL MATERIAL BY

GEOGRAPHIC REGION

- 12.1 Global Amorphous Metal Material Market Size Forecast by Region
 - 12.1.1 Global Amorphous Metal Material Forecast by Region (2024-2029)
 - 12.1.2 Global Amorphous Metal Material Annual Revenue Forecast by Region (2024-2029)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Amorphous Metal Material Forecast by Type
- 12.7 Global Amorphous Metal Material Forecast by Application

13 KEY PLAYERS ANALYSIS

- 13.1 Hitachi
 - 13.1.1 Hitachi Company Information
 - 13.1.2 Hitachi Amorphous Metal Material Product Portfolios and Specifications
 - 13.1.3 Hitachi Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.1.4 Hitachi Main Business Overview
 - 13.1.5 Hitachi Latest Developments
- 13.2 Henan Zhongyue
 - 13.2.1 Henan Zhongyue Company Information
 - 13.2.2 Henan Zhongyue Amorphous Metal Material Product Portfolios and Specifications
 - 13.2.3 Henan Zhongyue Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.2.4 Henan Zhongyue Main Business Overview
 - 13.2.5 Henan Zhongyue Latest Developments
- 13.3 Junhua Technology
 - 13.3.1 Junhua Technology Company Information
 - 13.3.2 Junhua Technology Amorphous Metal Material Product Portfolios and Specifications
 - 13.3.3 Junhua Technology Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.3.4 Junhua Technology Main Business Overview
 - 13.3.5 Junhua Technology Latest Developments
- 13.4 Londerful New Material

- 13.4.1 Londerful New Material Company Information
- 13.4.2 Londerful New Material Amorphous Metal Material Product Portfolios and Specifications
- 13.4.3 Londerful New Material Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.4.4 Londerful New Material Main Business Overview
- 13.4.5 Londerful New Material Latest Developments
- 13.5 Shenke
 - 13.5.1 Shenke Company Information
 - 13.5.2 Shenke Amorphous Metal Material Product Portfolios and Specifications
 - 13.5.3 Shenke Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.5.4 Shenke Main Business Overview
 - 13.5.5 Shenke Latest Developments
- 13.6 Foshan Huaxin Microlite Metal
 - 13.6.1 Foshan Huaxin Microlite Metal Company Information
 - 13.6.2 Foshan Huaxin Microlite Metal Amorphous Metal Material Product Portfolios and Specifications
 - 13.6.3 Foshan Huaxin Microlite Metal Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.6.4 Foshan Huaxin Microlite Metal Main Business Overview
 - 13.6.5 Foshan Huaxin Microlite Metal Latest Developments
- 13.7 Advanced Technology & Materials
 - 13.7.1 Advanced Technology & Materials Company Information
 - 13.7.2 Advanced Technology & Materials Amorphous Metal Material Product Portfolios and Specifications
 - 13.7.3 Advanced Technology & Materials Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.7.4 Advanced Technology & Materials Main Business Overview
 - 13.7.5 Advanced Technology & Materials Latest Developments
- 13.8 Zhejiang Zhaojing Electrical Company
 - 13.8.1 Zhejiang Zhaojing Electrical Company Company Information
 - 13.8.2 Zhejiang Zhaojing Electrical Company Amorphous Metal Material Product Portfolios and Specifications
 - 13.8.3 Zhejiang Zhaojing Electrical Company Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.8.4 Zhejiang Zhaojing Electrical Company Main Business Overview
 - 13.8.5 Zhejiang Zhaojing Electrical Company Latest Developments
- 13.9 Qingdao Yunlu Advanced Material Technology

- 13.9.1 Qingdao Yunlu Advanced Material Technology Company Information
- 13.9.2 Qingdao Yunlu Advanced Material Technology Amorphous Metal Material Product Portfolios and Specifications
- 13.9.3 Qingdao Yunlu Advanced Material Technology Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.9.4 Qingdao Yunlu Advanced Material Technology Main Business Overview
- 13.9.5 Qingdao Yunlu Advanced Material Technology Latest Developments
- 13.10 Foshan Catech
 - 13.10.1 Foshan Catech Company Information
 - 13.10.2 Foshan Catech Amorphous Metal Material Product Portfolios and Specifications
 - 13.10.3 Foshan Catech Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.10.4 Foshan Catech Main Business Overview
 - 13.10.5 Foshan Catech Latest Developments
- 13.11 Orient Group
 - 13.11.1 Orient Group Company Information
 - 13.11.2 Orient Group Amorphous Metal Material Product Portfolios and Specifications
 - 13.11.3 Orient Group Amorphous Metal Material Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.11.4 Orient Group Main Business Overview
 - 13.11.5 Orient Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Amorphous Metal Material Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)
- Table 2. Amorphous Metal Material Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)
- Table 3. Major Players of Amorphous Metal Cores
- Table 4. Major Players of Amorphous Metal Ribbons
- Table 5. Major Players of Others
- Table 6. Global Amorphous Metal Material Sales by Type (2018-2023) & (Kiloton)
- Table 7. Global Amorphous Metal Material Sales Market Share by Type (2018-2023)
- Table 8. Global Amorphous Metal Material Revenue by Type (2018-2023) & (\$ million)
- Table 9. Global Amorphous Metal Material Revenue Market Share by Type (2018-2023)
- Table 10. Global Amorphous Metal Material Sale Price by Type (2018-2023) & (US\$/Ton)
- Table 11. Global Amorphous Metal Material Sales by Application (2018-2023) & (Kiloton)
- Table 12. Global Amorphous Metal Material Sales Market Share by Application (2018-2023)
- Table 13. Global Amorphous Metal Material Revenue by Application (2018-2023)
- Table 14. Global Amorphous Metal Material Revenue Market Share by Application (2018-2023)
- Table 15. Global Amorphous Metal Material Sale Price by Application (2018-2023) & (US\$/Ton)
- Table 16. Global Amorphous Metal Material Sales by Company (2018-2023) & (Kiloton)
- Table 17. Global Amorphous Metal Material Sales Market Share by Company (2018-2023)
- Table 18. Global Amorphous Metal Material Revenue by Company (2018-2023) (\$ Millions)
- Table 19. Global Amorphous Metal Material Revenue Market Share by Company (2018-2023)
- Table 20. Global Amorphous Metal Material Sale Price by Company (2018-2023) & (US\$/Ton)
- Table 21. Key Manufacturers Amorphous Metal Material Producing Area Distribution and Sales Area
- Table 22. Players Amorphous Metal Material Products Offered
- Table 23. Amorphous Metal Material Concentration Ratio (CR3, CR5 and CR10) &

(2018-2023)

Table 24. New Products and Potential Entrants

Table 25. Mergers & Acquisitions, Expansion

Table 26. Global Amorphous Metal Material Sales by Geographic Region (2018-2023) & (Kiloton)

Table 27. Global Amorphous Metal Material Sales Market Share Geographic Region (2018-2023)

Table 28. Global Amorphous Metal Material Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 29. Global Amorphous Metal Material Revenue Market Share by Geographic Region (2018-2023)

Table 30. Global Amorphous Metal Material Sales by Country/Region (2018-2023) & (Kiloton)

Table 31. Global Amorphous Metal Material Sales Market Share by Country/Region (2018-2023)

Table 32. Global Amorphous Metal Material Revenue by Country/Region (2018-2023) & (\$ millions)

Table 33. Global Amorphous Metal Material Revenue Market Share by Country/Region (2018-2023)

Table 34. Americas Amorphous Metal Material Sales by Country (2018-2023) & (Kiloton)

Table 35. Americas Amorphous Metal Material Sales Market Share by Country (2018-2023)

Table 36. Americas Amorphous Metal Material Revenue by Country (2018-2023) & (\$ Millions)

Table 37. Americas Amorphous Metal Material Revenue Market Share by Country (2018-2023)

Table 38. Americas Amorphous Metal Material Sales by Type (2018-2023) & (Kiloton)

Table 39. Americas Amorphous Metal Material Sales by Application (2018-2023) & (Kiloton)

Table 40. APAC Amorphous Metal Material Sales by Region (2018-2023) & (Kiloton)

Table 41. APAC Amorphous Metal Material Sales Market Share by Region (2018-2023)

Table 42. APAC Amorphous Metal Material Revenue by Region (2018-2023) & (\$ Millions)

Table 43. APAC Amorphous Metal Material Revenue Market Share by Region (2018-2023)

Table 44. APAC Amorphous Metal Material Sales by Type (2018-2023) & (Kiloton)

Table 45. APAC Amorphous Metal Material Sales by Application (2018-2023) & (Kiloton)

- Table 46. Europe Amorphous Metal Material Sales by Country (2018-2023) & (Kiloton)
- Table 47. Europe Amorphous Metal Material Sales Market Share by Country (2018-2023)
- Table 48. Europe Amorphous Metal Material Revenue by Country (2018-2023) & (\$ Millions)
- Table 49. Europe Amorphous Metal Material Revenue Market Share by Country (2018-2023)
- Table 50. Europe Amorphous Metal Material Sales by Type (2018-2023) & (Kiloton)
- Table 51. Europe Amorphous Metal Material Sales by Application (2018-2023) & (Kiloton)
- Table 52. Middle East & Africa Amorphous Metal Material Sales by Country (2018-2023) & (Kiloton)
- Table 53. Middle East & Africa Amorphous Metal Material Sales Market Share by Country (2018-2023)
- Table 54. Middle East & Africa Amorphous Metal Material Revenue by Country (2018-2023) & (\$ Millions)
- Table 55. Middle East & Africa Amorphous Metal Material Revenue Market Share by Country (2018-2023)
- Table 56. Middle East & Africa Amorphous Metal Material Sales by Type (2018-2023) & (Kiloton)
- Table 57. Middle East & Africa Amorphous Metal Material Sales by Application (2018-2023) & (Kiloton)
- Table 58. Key Market Drivers & Growth Opportunities of Amorphous Metal Material
- Table 59. Key Market Challenges & Risks of Amorphous Metal Material
- Table 60. Key Industry Trends of Amorphous Metal Material
- Table 61. Amorphous Metal Material Raw Material
- Table 62. Key Suppliers of Raw Materials
- Table 63. Amorphous Metal Material Distributors List
- Table 64. Amorphous Metal Material Customer List
- Table 65. Global Amorphous Metal Material Sales Forecast by Region (2024-2029) & (Kiloton)
- Table 66. Global Amorphous Metal Material Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 67. Americas Amorphous Metal Material Sales Forecast by Country (2024-2029) & (Kiloton)
- Table 68. Americas Amorphous Metal Material Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 69. APAC Amorphous Metal Material Sales Forecast by Region (2024-2029) & (Kiloton)

Table 70. APAC Amorphous Metal Material Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 71. Europe Amorphous Metal Material Sales Forecast by Country (2024-2029) & (Kiloton)

Table 72. Europe Amorphous Metal Material Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 73. Middle East & Africa Amorphous Metal Material Sales Forecast by Country (2024-2029) & (Kiloton)

Table 74. Middle East & Africa Amorphous Metal Material Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 75. Global Amorphous Metal Material Sales Forecast by Type (2024-2029) & (Kiloton)

Table 76. Global Amorphous Metal Material Revenue Forecast by Type (2024-2029) & (\$ Millions)

Table 77. Global Amorphous Metal Material Sales Forecast by Application (2024-2029) & (Kiloton)

Table 78. Global Amorphous Metal Material Revenue Forecast by Application (2024-2029) & (\$ Millions)

Table 79. Hitachi Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors

Table 80. Hitachi Amorphous Metal Material Product Portfolios and Specifications

Table 81. Hitachi Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 82. Hitachi Main Business

Table 83. Hitachi Latest Developments

Table 84. Henan Zhongyue Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors

Table 85. Henan Zhongyue Amorphous Metal Material Product Portfolios and Specifications

Table 86. Henan Zhongyue Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 87. Henan Zhongyue Main Business

Table 88. Henan Zhongyue Latest Developments

Table 89. Junhua Technology Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors

Table 90. Junhua Technology Amorphous Metal Material Product Portfolios and Specifications

Table 91. Junhua Technology Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

- Table 92. Junhua Technology Main Business
- Table 93. Junhua Technology Latest Developments
- Table 94. Londerful New Material Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 95. Londerful New Material Amorphous Metal Material Product Portfolios and Specifications
- Table 96. Londerful New Material Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 97. Londerful New Material Main Business
- Table 98. Londerful New Material Latest Developments
- Table 99. Shenke Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 100. Shenke Amorphous Metal Material Product Portfolios and Specifications
- Table 101. Shenke Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 102. Shenke Main Business
- Table 103. Shenke Latest Developments
- Table 104. Foshan Huaxin Microlite Metal Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 105. Foshan Huaxin Microlite Metal Amorphous Metal Material Product Portfolios and Specifications
- Table 106. Foshan Huaxin Microlite Metal Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 107. Foshan Huaxin Microlite Metal Main Business
- Table 108. Foshan Huaxin Microlite Metal Latest Developments
- Table 109. Advanced Technology & Materials Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 110. Advanced Technology & Materials Amorphous Metal Material Product Portfolios and Specifications
- Table 111. Advanced Technology & Materials Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 112. Advanced Technology & Materials Main Business
- Table 113. Advanced Technology & Materials Latest Developments
- Table 114. Zhejiang Zhaojing Electrical Company Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 115. Zhejiang Zhaojing Electrical Company Amorphous Metal Material Product Portfolios and Specifications
- Table 116. Zhejiang Zhaojing Electrical Company Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

- Table 117. Zhejiang Zhaojing Electrical Company Main Business
- Table 118. Zhejiang Zhaojing Electrical Company Latest Developments
- Table 119. Qingdao Yunlu Advanced Material Technology Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 120. Qingdao Yunlu Advanced Material Technology Amorphous Metal Material Product Portfolios and Specifications
- Table 121. Qingdao Yunlu Advanced Material Technology Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 122. Qingdao Yunlu Advanced Material Technology Main Business
- Table 123. Qingdao Yunlu Advanced Material Technology Latest Developments
- Table 124. Foshan Catech Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 125. Foshan Catech Amorphous Metal Material Product Portfolios and Specifications
- Table 126. Foshan Catech Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 127. Foshan Catech Main Business
- Table 128. Foshan Catech Latest Developments
- Table 129. Orient Group Basic Information, Amorphous Metal Material Manufacturing Base, Sales Area and Its Competitors
- Table 130. Orient Group Amorphous Metal Material Product Portfolios and Specifications
- Table 131. Orient Group Amorphous Metal Material Sales (Kiloton), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
- Table 132. Orient Group Main Business
- Table 133. Orient Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Amorphous Metal Material
- Figure 2. Amorphous Metal Material Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Amorphous Metal Material Sales Growth Rate 2018-2029 (Kiloton)
- Figure 7. Global Amorphous Metal Material Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. Amorphous Metal Material Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of Amorphous Metal Cores
- Figure 10. Product Picture of Amorphous Metal Ribbons
- Figure 11. Product Picture of Others
- Figure 12. Global Amorphous Metal Material Sales Market Share by Type in 2022
- Figure 13. Global Amorphous Metal Material Revenue Market Share by Type (2018-2023)
- Figure 14. Amorphous Metal Material Consumed in Distribution Transformer
- Figure 15. Global Amorphous Metal Material Market: Distribution Transformer (2018-2023) & (Kiloton)
- Figure 16. Amorphous Metal Material Consumed in Electric Machinery
- Figure 17. Global Amorphous Metal Material Market: Electric Machinery (2018-2023) & (Kiloton)
- Figure 18. Amorphous Metal Material Consumed in Electronic Components
- Figure 19. Global Amorphous Metal Material Market: Electronic Components (2018-2023) & (Kiloton)
- Figure 20. Amorphous Metal Material Consumed in Others
- Figure 21. Global Amorphous Metal Material Market: Others (2018-2023) & (Kiloton)
- Figure 22. Global Amorphous Metal Material Sales Market Share by Application (2022)
- Figure 23. Global Amorphous Metal Material Revenue Market Share by Application in 2022
- Figure 24. Amorphous Metal Material Sales Market by Company in 2022 (Kiloton)
- Figure 25. Global Amorphous Metal Material Sales Market Share by Company in 2022
- Figure 26. Amorphous Metal Material Revenue Market by Company in 2022 (\$ Million)
- Figure 27. Global Amorphous Metal Material Revenue Market Share by Company in 2022
- Figure 28. Global Amorphous Metal Material Sales Market Share by Geographic Region

(2018-2023)

Figure 29. Global Amorphous Metal Material Revenue Market Share by Geographic Region in 2022

Figure 30. Americas Amorphous Metal Material Sales 2018-2023 (Kiloton)

Figure 31. Americas Amorphous Metal Material Revenue 2018-2023 (\$ Millions)

Figure 32. APAC Amorphous Metal Material Sales 2018-2023 (Kiloton)

Figure 33. APAC Amorphous Metal Material Revenue 2018-2023 (\$ Millions)

Figure 34. Europe Amorphous Metal Material Sales 2018-2023 (Kiloton)

Figure 35. Europe Amorphous Metal Material Revenue 2018-2023 (\$ Millions)

Figure 36. Middle East & Africa Amorphous Metal Material Sales 2018-2023 (Kiloton)

Figure 37. Middle East & Africa Amorphous Metal Material Revenue 2018-2023 (\$ Millions)

Figure 38. Americas Amorphous Metal Material Sales Market Share by Country in 2022

Figure 39. Americas Amorphous Metal Material Revenue Market Share by Country in 2022

Figure 40. Americas Amorphous Metal Material Sales Market Share by Type (2018-2023)

Figure 41. Americas Amorphous Metal Material Sales Market Share by Application (2018-2023)

Figure 42. United States Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 43. Canada Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 44. Mexico Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 45. Brazil Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 46. APAC Amorphous Metal Material Sales Market Share by Region in 2022

Figure 47. APAC Amorphous Metal Material Revenue Market Share by Regions in 2022

Figure 48. APAC Amorphous Metal Material Sales Market Share by Type (2018-2023)

Figure 49. APAC Amorphous Metal Material Sales Market Share by Application (2018-2023)

Figure 50. China Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 51. Japan Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 52. South Korea Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 53. Southeast Asia Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 54. India Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 55. Australia Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 56. China Taiwan Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 57. Europe Amorphous Metal Material Sales Market Share by Country in 2022

Figure 58. Europe Amorphous Metal Material Revenue Market Share by Country in 2022

Figure 59. Europe Amorphous Metal Material Sales Market Share by Type (2018-2023)

Figure 60. Europe Amorphous Metal Material Sales Market Share by Application (2018-2023)

Figure 61. Germany Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 62. France Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 63. UK Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 64. Italy Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 65. Russia Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 66. Middle East & Africa Amorphous Metal Material Sales Market Share by Country in 2022

Figure 67. Middle East & Africa Amorphous Metal Material Revenue Market Share by Country in 2022

Figure 68. Middle East & Africa Amorphous Metal Material Sales Market Share by Type (2018-2023)

Figure 69. Middle East & Africa Amorphous Metal Material Sales Market Share by Application (2018-2023)

Figure 70. Egypt Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 71. South Africa Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 72. Israel Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 73. Turkey Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 74. GCC Country Amorphous Metal Material Revenue Growth 2018-2023 (\$ Millions)

Figure 75. Manufacturing Cost Structure Analysis of Amorphous Metal Material in 2022

Figure 76. Manufacturing Process Analysis of Amorphous Metal Material

Figure 77. Industry Chain Structure of Amorphous Metal Material

Figure 78. Channels of Distribution

Figure 79. Global Amorphous Metal Material Sales Market Forecast by Region (2024-2029)

Figure 80. Global Amorphous Metal Material Revenue Market Share Forecast by Region (2024-2029)

Figure 81. Global Amorphous Metal Material Sales Market Share Forecast by Type (2024-2029)

Figure 82. Global Amorphous Metal Material Revenue Market Share Forecast by Type (2024-2029)

Figure 83. Global Amorphous Metal Material Sales Market Share Forecast by

Application (2024-2029)

Figure 84. Global Amorphous Metal Material Revenue Market Share Forecast by Application (2024-2029)

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