

# Global Amorphous Fe Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GFA2A88D12CBEN.html>

Date: June 2024

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: GFA2A88D12CBEN

## Abstracts

According to our (Global Info Research) latest study, the global Amorphous Fe market size was valued at USD 483.1 million in 2023 and is forecast to a readjusted size of USD 775 million by 2030 with a CAGR of 7.0% during review period.

Amorphous steel is an alloy steel with advantageous magnetic properties necessary for use in distribution transformers, electric reactors, electric machines and middle and high frequency transformers. The iron-based amorphous steel is predominantly iron (Fe) (up to 82%), with boron (B) (8 percent to 15 percent), and silicon (Si) (5 percent to 10 percent) (SA1 and HB1M). AR may also contain carbon (C) alloyed to allow for its amorphous structure. Up to 25% of the iron (Fe) may be replaced with cobalt (Co) to allow for higher induction, to be used in pulse power applications (2605CO alloy). This AR is normally imported in the form of a singleply coil up to 1000kg in weight, or in a multiple-ply format where 3 to 10 sheets are co-wound onto a single hub.

Amorphous iron offers advantages in energy efficiency due to its low core loss. Market trends involve research and development efforts to enhance its properties for various electrical and electronic applications.

The Global Info Research report includes an overview of the development of the Amorphous Fe industry chain, the market status of Distribution Transformer (Amorphous Ribbon, Nano-crystalline Ribbon), Electric Machinery (Amorphous Ribbon, Nano-crystalline Ribbon), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Amorphous Fe.

Regionally, the report analyzes the Amorphous Fe markets in key regions. North

America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Amorphous Fe market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Amorphous Fe market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Amorphous Fe industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Amorphous Ribbon, Nano-crystalline Ribbon).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Amorphous Fe market.

**Regional Analysis:** The report involves examining the Amorphous Fe market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Amorphous Fe market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Amorphous Fe:

**Company Analysis:** Report covers individual Amorphous Fe manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and

attitudes towards Amorphous Fe This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Distribution Transformer, Electric Machinery).

**Technology Analysis:** Report covers specific technologies relevant to Amorphous Fe. It assesses the current state, advancements, and potential future developments in Amorphous Fe areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Amorphous Fe market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Amorphous Fe market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Amorphous Ribbon

Nano-crystalline Ribbon

### Market segment by Application

Distribution Transformer

Electric Machinery

Electronic Components

Others

## Major players covered

Hitachi Metal

Advanced Technology

Qingdao Yunlu

Henan Zhongyue

China Amorphous Technology

Zhaojing Incorporated

Junhua Technology

Londerful New Material

Shenke

Orient Group

Foshan Huaxin

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Amorphous Fe product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Amorphous Fe, with price, sales, revenue and global market share of Amorphous Fe from 2019 to 2024.

Chapter 3, the Amorphous Fe competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Amorphous Fe breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Amorphous Fe market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Amorphous Fe.

Chapter 14 and 15, to describe Amorphous Fe sales channel, distributors, customers, research findings and conclusion.

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