

Global Amorphous Fe Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Amorphous Fe market size is expected to reach \$ 1926 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Amorphous Fe refers to iron-based amorphous alloy materials characterized by a non-crystalline atomic structure formed through rapid solidification, offering extremely low core loss, high magnetic permeability, and excellent soft magnetic performance compared with conventional silicon steel. These materials are typically supplied in ribbon or strip form and are primarily used as raw materials for manufacturing amorphous magnetic cores in distribution transformers, reactors, inductors, and high-efficiency electromagnetic devices. From a value chain perspective, upstream activities include iron-based alloying elements, master alloys, and rapid quenching equipment, midstream processes focus on alloy melting, melt spinning, ribbon casting, heat treatment, and quality control, while downstream demand is driven by transformer manufacturers, magnetic component producers, power equipment suppliers, and energy infrastructure developers. In 2025, the average selling price of amorphous Fe is approximately US\$6,200 per ton, with global sales volume reaching around 185,000 tons. The industry maintains a gross margin of 30%-45%, supported by process complexity, intellectual property concentration, energy-saving value, and regulatory-driven adoption of high-efficiency magnetic materials.

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. Industry analysis indicates that amorphous Fe is transitioning from a niche efficiency material toward broader adoption in power distribution and industrial energy systems. Growth is strongly supported by transformer efficiency standards, grid modernization, and the long-term push for lower no-load

losses in electrical infrastructure.

This report studies the global Amorphous Fe production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Amorphous Fe 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 Amorphous Fe that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Amorphous Fe total production and demand, 2021-2032, (Kilotons)

Global Amorphous Fe total production value, 2021-2032, (USD Million)

Global Amorphous Fe production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Amorphous Fe consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Amorphous Fe domestic production, consumption, key domestic manufacturers and share

Global Amorphous Fe production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Amorphous Fe production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Amorphous Fe production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Amorphous Fe 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 Hitachi Metals, Metglas, Qingdao Yunlu Advanced Materials, Henan Zhongyue Amorphous, Advanced Technology & Materials, China Amorphous Technology, Vacuumschmelze, Daido Steel, AMSC, HBIS Magnetics, 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 Amorphous Fe market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (USD/MT) 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 Amorphous Fe Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Amorphous Fe Market, Segmentation by Type:

Amorphous Ribbon

Nano-crystalline Ribbon

Global Amorphous Fe Market, Segmentation by Alloy System:

Fe-based Amorphous Alloys

Fe-Si-B Systems

Fe-B-C Systems

Global Amorphous Fe Market, Segmentation by Loss Level:

Ultra-low Loss Grade

Low Loss Grade

Global Amorphous Fe Market, Segmentation by Application:

Transformer Manufacturers

Magnetic Component Producers

Power Equipment Suppliers

Companies Profiled:

Hitachi Metals

Metglas

Qingdao Yunlu Advanced Materials

Henan Zhongyue Amorphous

Advanced Technology & Materials

China Amorphous Technology

Vacuumschmelze

Daido Steel

AMSC

HBIS Magnetics

Liaoning Great Wall Amorphous

Key Questions Answered:

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

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