

Global Amorphous and Nanocrystalline Soft Magnetic Materials Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Amorphous and Nanocrystalline Soft Magnetic Materials market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Amorphous Ribbon is a new soft magnetic material. It is produced through the advanced technology of rapid solidification of molten metal at a cooling rate of about a million $^{\circ}\text{C}/\text{sec}$. During this process the metal is rapidly quenched as a form of ribbon with 25-35 μm thickness, and the micro-structure of the alloy is the amorphous due to the high quenching rate. Nanocrystalline alloys are materials based on Fe, Si and B as well as Nb and Cu. They are produced in thin ribbons by rapid solidification technology, initially amorphous, and then crystallized in heat treatment at about 500-600 $^{\circ}\text{C}$. This results in the microstructure of very fine grains with a grain size of 10 nanometers - hence known as nanocrystals. These nanocrystalline alloys have low magnetic anisotropy and low magnetostriction, and have high magnetic flux density BS and good thermal stability.

This report studies the global Amorphous and Nanocrystalline Soft Magnetic Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Amorphous and Nanocrystalline Soft Magnetic Materials, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Amorphous and Nanocrystalline Soft Magnetic Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Amorphous and Nanocrystalline Soft Magnetic Materials total production and demand, 2018-2029, (Tons)

Global Amorphous and Nanocrystalline Soft Magnetic Materials total production value, 2018-2029, (USD Million)

Global Amorphous and Nanocrystalline Soft Magnetic Materials production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Amorphous and Nanocrystalline Soft Magnetic Materials consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Amorphous and Nanocrystalline Soft Magnetic Materials domestic production, consumption, key domestic manufacturers and share

Global Amorphous and Nanocrystalline Soft Magnetic Materials production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Amorphous and Nanocrystalline Soft Magnetic Materials production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Amorphous and Nanocrystalline Soft Magnetic Materials production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Amorphous and Nanocrystalline Soft Magnetic Materials 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 Proterial, Ltd., Qingdao Yunlu, Advanced Technology, VACUUMSCHMELZE, Zhejiang Zhaojing Electrical, China Amorphous Technology, Henan Zhongyue, Foshan Huaxin and Londerful New Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Amorphous and Nanocrystalline Soft Magnetic Materials 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Amorphous and Nanocrystalline Soft Magnetic Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Amorphous and Nanocrystalline Soft Magnetic Materials Market, Segmentation by Type

Amorphous Ribbons

Nanocrystalline Ribbons

Global Amorphous and Nanocrystalline Soft Magnetic Materials Market, Segmentation by Application

Transformer

Home Appliances and Consumer Electronics

Photovoltaics and Wind Power

Automotive and Transportation

Aerospace

Medical

Others

Companies Profiled:

Proterial, Ltd.

Qingdao Yunlu

Advanced Technology

VACUUMSCHMELZE

Zhejiang Zhaojing Electrical

China Amorphous Technology

Henan Zhongyue

Foshan Huaxin

Londerful New Material

Jiangsu Guoneng Alloy Technology

Bomatec

OJSC MSTATOR

JoinChina Advanced Materials

Vikarsh Nano

Key Questions Answered

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

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