

Global Permalloys (FeNi) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Permalloys (FeNi) market size is expected to reach \$ 342 million by 2032, rising at a market growth of 2.7% CAGR during the forecast period (2026-2032).

Permalloy (FeNi) is a nickel-iron magnetic alloy, a common mixture includes 80% nickel and 20% iron, with others formulations are also available. This report mainly focuses on permalloy (FeNi) with a nickel content in the range of 35-85%, which has a high saturation magnetic flux density and a relatively high magnetic permeability. Permalloy is suitable as a magnetic shielding material because of the above-mentioned properties. This makes the alloy useful in a wide range of applications when high magnetic permeability is desired. Easily magnetized and demagnetized, permalloy can be found working at sites which range from recording studios to electrical generation facilities. In 2025, global sales volume for permalloy (Fe-Ni) reached 8,534 tons, with an average selling price of US\$32,700 per ton and an industry-average gross margin of approximately 20%-35%. The Permalloy (iron-nickel alloy) industry chain comprises three main segments: upstream raw materials, midstream alloy manufacturing, and downstream applications. The upstream sector primarily involves metal raw materials such as nickel, iron, molybdenum, and copper, with nickel serving as the key factor influencing product costs and price fluctuations. The midstream sector consists of manufacturers that process these raw materials using techniques such as vacuum melting, forging, rolling, wire drawing, annealing, slitting, and stamping into products including strips, sheets, foils, wires, rods, powders, and magnetic shielding components. This stage entails significant technical barriers, requiring precise control over chemical composition and heat treatment processes, as well as consistent magnetic performance. Downstream applications span a wide range of fields, including magnetic shielding, instrument transformers, sensors, relays, small transformers, low-noise inductors, precision instruments, medical equipment, aerospace, and scientific research.

equipment.

Growth in the permalloy market is primarily driven by demand from sectors such as high-end electronics, power protection, sensors, precision instruments, automotive electronics, telecommunications equipment, and magnetic shielding. As power electronic systems become increasingly complex, there is a sustained demand for soft magnetic materials characterized by low coercivity and high permeability?essential for components like current transformers, earth-leakage circuit breakers, low-noise transformers, common-mode inductors, and high-sensitivity sensors. Furthermore, the need for weak-field detection, magnetic shielding, and high-reliability components in areas such as new energy vehicles, industrial automation, medical imaging, aerospace, semiconductor equipment, and scientific instruments has enhanced the value of high-end iron-nickel (FeNi) soft magnetic alloys. On the other hand, as permalloys are high-nickel materials, their costs are significantly affected by fluctuations in nickel prices; cost-sensitive downstream customers may opt for alternatives such as iron-silicon (FeSi) alloys, amorphous/nanocrystalline alloys, soft magnetic powder cores, ferrites, or low-nickel substitutes. Additionally, the magnetic properties of permalloys depend heavily on heat treatment and the control of processing stresses; failure to perform proper annealing after operations like deep processing, stamping, welding, or assembly can result in reduced permeability, leading to lengthy customer certification cycles and high barriers to switching suppliers. The industry also faces risks such as high market concentration for high-end products, stringent certification requirements in sectors like aerospace and medical technology, the need for Chinese domestic enterprises to improve capabilities regarding high-consistency thin strips and ultra-thin foils, and intensifying price competition in certain low-end product segments.

This report studies the global Permalloys (FeNi) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Permalloys (FeNi) 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 Permalloys (FeNi) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Permalloys (FeNi) total production and demand, 2021-2032, (Tons)
Global Permalloys (FeNi) total production value, 2021-2032, (USD Million)

Global Permalloys (FeNi) Supply, Demand and Key Producers, 2026-2032

Global Permalloys (FeNi) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Permalloys (FeNi) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Permalloys (FeNi) domestic production, consumption, key domestic manufacturers and share

Global Permalloys (FeNi) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Permalloys (FeNi) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Permalloys (FeNi) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Permalloys (FeNi) 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 Beijing Beiye Advanced Materials, Proterial Metals, Aperam, Vacuumschmelze, VDM Metals, Carpenter Technology, Xi'an Gangyan Functional Materials, Yixing Zixin Electronic New Materials, Dongbei Special Steel Group, Nanjing Damai Science & Technology Industry, 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 Permalloys (FeNi) 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Permalloys (FeNi) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permalloys (FeNi) Market, Segmentation by Type:

PB (41?51% Ni-Fe Permalloy)

PC (70%?85% Ni-Fe Permalloy)

Others

Global Permalloys (FeNi) Market, Segmentation by Product Form:

Strip

Sheet

Wire

Bar

Others

Global Permalloys (FeNi) Market, Segmentation by Performance Grade:

High Permeability Grade

Low Coercivity Grade

Others

Global Permalloys (FeNi) Market, Segmentation by Application:

Electronic Component

Others

Companies Profiled:

Beijing Beiye Advanced Materials

Proterial Metals

Aperam

Vacuumschmelze

VDM Metals

Carpenter Technology

Xi'an Gangyan Functional Materials

Yixing Zixin Electronic New Materials

Dongbei Special Steel Group

Nanjing Damai Science & Technology Industry

Key Questions Answered:

1. How big is the global Permalloys (FeNi) market?
2. What is the demand of the global Permalloys (FeNi) market?

3. What is the year over year growth of the global Permalloys (FeNi) market?
4. What is the production and production value of the global Permalloys (FeNi) market?
5. Who are the key producers in the global Permalloys (FeNi) market?
6. What are the growth factors driving the market demand?

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