

Global Permalloy Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G53FDBDD7498EN.html>

Date: August 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: G53FDBDD7498EN

Abstracts

The global Permalloy 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 is a high-permeability soft magnetic alloy composed primarily of nickel and iron; it is a key category within the iron-nickel soft magnetic alloy family. Typical compositions include Ni-Fe alloys with approximately 35%-50% or 77%-82% nickel content, as well as Ni-Fe-Mo and Ni-Fe-Cu alloys modified with elements such as molybdenum and copper. These materials are characterized by high initial permeability, low coercivity, low hysteresis loss, and low magnetostriction, enabling rapid magnetization and demagnetization in weak magnetic fields. They are primarily used in applications such as magnetic shielding, sensors, instrument transformers, relays, small transformers, low-noise inductors, magnetic heads, aerospace instruments, medical equipment, and scientific research instruments. Global permalloy sales in 2025 will be 8,534 tons, the average sales unit price will be US\$32,700/ton, and the industry average gross profit margin will be approximately 20%-35%. The Permalloy industry chain comprises three segments: upstream metal raw materials, midstream alloy material manufacturing, and downstream precision applications. The upstream segment primarily involves raw materials such as nickel, iron, molybdenum, and copper, with nickel being the key factor influencing costs and price fluctuations. The midstream segment consists of Permalloy manufacturers that process raw materials into products such as strips, thin strips, sheets, foils, wires, rods, powders, and magnetic shielding components using processes including vacuum melting, forging, hot rolling, cold rolling, wire drawing, annealing, slitting, stamping, and testing. This segment entails significant technical barriers, requiring strict control over composition and impurities, as well as precise heat treatment, stress relief, and consistency in magnetic properties. The downstream segment focuses on applications including magnetic

shielding, instrument transformers, sensors, relays, small transformers, low-noise inductors, medical equipment, aerospace, telecommunications electronics, and scientific research instruments.

Market growth for permalloy is primarily driven by demand in sectors such as precision electronics, power protection, industrial automation, sensors, medical instruments, aerospace, telecommunications equipment, and scientific research apparatus. As electronic systems evolve toward miniaturization, lower noise levels, and higher sensitivity, there is a sustained increase in demand for materials offering high magnetic permeability and low coercivity—qualities essential for current transformers, earth-leakage circuit breakers, magnetic sensors, low-noise transformers, precision relays, and magnetic shielding components. Rising requirements for current sensing, electromagnetic compatibility (EMC), and protection against weak magnetic signals in new energy vehicles, industrial control systems, telecommunications gear, and semiconductor equipment are further stimulating the use of Permalloy in high-end magnetic components. Additionally, the stringent demands for magnetic shielding and stable magnetic performance in medical imaging, aerospace, defense, and scientific research equipment provide further support for the demand for high-end Permalloy products. On the other hand, as a high-nickel material, Permalloy's cost is significantly influenced by fluctuations in nickel prices; a sharp rise in nickel prices could compress manufacturers' profit margins and dampen the purchasing willingness of downstream customers. Meanwhile, in certain low-to-mid-end applications, materials such as iron-silicon alloys, ferrites, amorphous/nanocrystalline alloys, and soft magnetic powder cores may pose competitive threats through substitution. Furthermore, Permalloy's magnetic properties are highly sensitive to processing stresses and annealing techniques; improper stamping, bending, welding, or assembly can lead to a decline in magnetic permeability. Consequently, the industry involves lengthy customer certification cycles and demands high standards for product consistency and process stability. Overall, this is not a market characterized by rapid, high-volume expansion, but rather one of steady growth defined by high precision, high reliability, a wide range of alloy grades, small-batch production, and customization.

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

This report is a detailed and comprehensive analysis of the world market for Permalloy 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 Permalloy that contribute to its increasing demand across

many markets.

Highlights and key features of the study

Global Permalloy total production and demand, 2021-2032, (Tons)

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

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

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

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

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

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

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

This report profiles key players in the global Permalloy 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 Permalloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Permalloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permalloy Market, Segmentation by Type:

PB (41?51% Ni-Fe Permalloy)

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

Others

Global Permalloy Market, Segmentation by Product Form:

Strip

Sheet

Rod

Wire

Others

Global Permalloy Market, Segmentation by Performance Grade:

High Permeability Grade

Low Coercivity Grade

Others

Global Permalloy 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 Permalloy market?
2. What is the demand of the global Permalloy market?
3. What is the year over year growth of the global Permalloy market?
4. What is the production and production value of the global Permalloy market?
5. Who are the key producers in the global Permalloy market?
6. What are the growth factors driving the market demand?

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