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

https://marketpublishers.com/r/G33713D000ECEN.html
Date: June 2026
Pages: 116
Price: US$ 4,480.00 (Single User License)
ID: G33713D000ECEN

Abstracts

The global Permalloy Foil market size is expected to reach $ 527 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, global permalloy foil production reached approximately 4548 tons, the average price is 6 usd/kg. Permalloy foil usually refers to an alloy of 20% iron and 80% nickel. Permalloy has high permeability, low coercivity, near-zero magnetic force control, and a pronounced anisotropic magnetoresistive effect.

Market Concentration and Major Players:

Internationally, the permalloy foil market is highly concentrated, primarily in developed countries like Europe, America, and Japan. Large manufacturers include Daido Steel and Hamilton Precision Metals. Domestically, however, permalloy foil still has significant room for growth.

Manufacturing Process and Market Trends:

Permalloy foil is made by mixing high-purity iron and nickel in a target ratio, followed by vacuum induction melting and casting into ingots. It then undergoes hot rolling, multiple cold rolling passes for thinning, and intermediate annealing under hydrogen or vacuum protective atmospheres to eliminate work hardening. Finally, it is annealed in a high-temperature magnetic field to achieve high magnetic permeability and then precision-cut into ultra-thin strips or prepared using electrodeposition.

On the market side, with the increasing demand from new energy vehicle electronic control systems, 5G communication equipment, medical imaging, and aerospace

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magnetic shielding, products are continuously evolving towards micron-level ultra-thin high-precision strips, nanocrystalline modification, and customized magnetic field heat treatment.

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

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

Highlights and key features of the study
Global Permalloy Foil total production and demand, 2021-2032, (Tons)
Global Permalloy Foil total production value, 2021-2032, (USD Million)
Global Permalloy Foil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Permalloy Foil consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Permalloy Foil domestic production, consumption, key domestic manufacturers and share
Global Permalloy Foil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Permalloy Foil production by State, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Permalloy Foil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Permalloy Foil 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 Daido Steel (Japan), Hamilton Precision Metals (USA), Hongyun Precision Industry (China), ESPI Metals (USA), E-SONG EMC (South Korea), VAC (Germany), Carpenter Technology (USA), Arnold Magnetic Technologies (USA), TDK (Japan), Proterial Metals (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Permalloy Foil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) by manufacturer, by State, 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 Foil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permalloy Foil Market, Segmentation by State:

35%?40%Ni-Fe Alloy

45%?50%Ni-Fe Alloy

50%?65%Ni-Fe Alloy

70%?81%Ni-Fe Alloy

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Global Permalloy Foil Market, Segmentation by Application:

Consumer Electronics

Communication

Others

Companies Profiled:

Daido Steel (Japan)

Hamilton Precision Metals (USA)

Hongyun Precision Industry (China)

ESPI Metals (USA)

E-SONG EMC (South Korea)

VAC (Germany)

Carpenter Technology (USA)

Arnold Magnetic Technologies (USA)

TDK (Japan)

Proterial Metals (Japan)

Nippon Yakin Kogyo (Japan)

TOKKIN (Japan)

Key Questions Answered:

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

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