

Global Extremely Thin Permalloy Foil Market Growth 2026-2032

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Abstracts

The global Extremely Thin Permalloy Foil market size is predicted to grow from US\$ 90.00 million in 2025 to US\$ 144 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

In 2025, global Extremely Thin Permalloy Foil production reached approximately 400 tons, with an average global market price of around 230 US\$/kg.

Extremely Thin Permalloy Foil refers to a high-permeability soft magnetic nickel–iron alloy foil, typically based on Ni-Fe or Ni-Fe-Mo compositions such as 1J79, 1J85, 79HM, moly permalloy, PB/PC/PD/PE series permalloys, and related high-nickel magnetic alloys. Based on the product ranges of the confirmed manufacturers, the statistical thickness scope can be defined as approximately 2–100 μm , with 2–10 μm representing ultra-high-precision specialty foil, >10–50 μm representing mainstream extremely thin magnetic shielding and sensor-use foil, and >50–100 μm representing thin permalloy foil or precision soft magnetic strip used in shielding, yokes, magnetic sensors, relays, transformers, inductors, magnetic heads, aerospace electronics, medical electronics, and precision instruments. The product is manufactured through vacuum melting, precision cold rolling, repeated annealing, magnetic heat treatment, surface cleaning, slitting, and tight tolerance control, and is characterized by very high magnetic permeability, low coercivity, low magnetic loss, good weak-field sensitivity, excellent shielding performance, and stable magnetic properties in compact electronic or precision magnetic assemblies.

The average single-line production capacity of Extremely Thin Permalloy Foil is 40 tons, the average gross profit margin was 31.8%.

The upstream includes high-purity nickel, iron, molybdenum, copper and other alloying metals, as well as vacuum melting materials, protective gases, rolling lubricants and annealing atmospheres. The midstream covers alloy smelting, casting, forging, hot rolling, cold rolling, precision foil rolling, heat treatment, magnetic annealing, surface cleaning, slitting and quality testing. The downstream includes magnetic shielding components, precision sensors, transformers, inductors, relays, medical electronics, aerospace systems, communication equipment, industrial instruments and consumer electronic modules.

The cost structure is dominated by nickel and alloy metals, accounting for about 45%–60%, followed by precision rolling, annealing and magnetic property control at 18%–25%, labor and manufacturing overhead at 8%–12%, energy and protective atmosphere costs at 5%–8%, quality inspection, slitting and packaging at 4%–7%, and R&D, certification, sales and administration at 6%–10%. Ultra-thin grades have higher yield-loss and process-control costs due to strict thickness tolerance and magnetic performance requirements.

Demand is driven by miniaturized electronics, high-sensitivity sensors, electromagnetic shielding, aerospace electronics, medical equipment, industrial automation and high-frequency precision magnetic components. Business opportunities are concentrated in ultra-thin magnetic shielding foils, customized slitting materials, high-permeability sensor foils, low-coercivity precision alloys, medical and aerospace-certified materials, and localized supply replacement. Growth is supported by increasing requirements for compact magnetic components, but barriers include nickel price volatility, strict heat-treatment control, thickness uniformity, magnetic consistency and long customer qualification cycles.

LP Information, Inc. (LPI) ' newest research report, the “Extremely Thin Permalloy Foil Industry Forecast” looks at past sales and reviews total world Extremely Thin Permalloy Foil sales in 2025, providing a comprehensive analysis by region and market sector of projected Extremely Thin Permalloy Foil sales for 2026 through 2032. With Extremely Thin Permalloy Foil sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Extremely Thin Permalloy Foil industry.

This Insight Report provides a comprehensive analysis of the global Extremely Thin Permalloy Foil landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on

Extremely Thin Permalloy Foil portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Extremely Thin Permalloy Foil market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Extremely Thin Permalloy Foil and breaks down the forecast by Alloy Composition, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Extremely Thin Permalloy Foil.

This report presents a comprehensive overview, market shares, and growth opportunities of Extremely Thin Permalloy Foil market by product type, application, key manufacturers and key regions and countries.

Segmentation by Alloy Composition:

Ni-Fe 79/80 Series Permalloy Foil

Ni-Fe-Mo Moly Permalloy Foil

1J79 Permalloy Foil

1J85 High-Permeability Permalloy Foil

Others

Segmentation by Thickness Level:

Ultra-Thin Foil: $\leq 10 \mu\text{m}$

Extremely Thin Foil: $>10\text{--}25 \mu\text{m}$

Thin Magnetic Foil: $>25\text{--}50 \mu\text{m}$

Precision Soft Magnetic Strip Foil: $>50\text{--}100 \mu\text{m}$

Segmentation by Magnetic Performance:

Standard Permeability Type: $\mu_i < 30,000$

High Permeability Type: $\mu_i 30,000\text{--}80,000$

Ultra-High Permeability Type: $\mu_i > 80,000\text{--}150,000$

Magnetic Shielding Grade Type: $\mu_{\max} > 150,000$

Low Coercivity Grade Type: $H_c \leq 5 \text{ A/m}$

Others

Segmentation by Application:

Electronics and Semiconductor

Aerospace and Defense

Medical Devices

Industrial Automation

Energy and Power Equipment

Precision Instruments and Sensors

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Daido Steel

Proterial

Hamilton Precision Metals (AMETEK)

Arnold Magnetic Technologies

E-Song EMC

HongerTech

Shanghai Tankii Alloy Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Extremely Thin Permalloy Foil market?

What factors are driving Extremely Thin Permalloy Foil market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Extremely Thin Permalloy Foil market opportunities vary by end market

size?

How does Extremely Thin Permalloy Foil break out by Alloy Composition, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Extremely Thin Permalloy Foil Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Extremely Thin Permalloy Foil by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Extremely Thin Permalloy Foil by Country/Region, 2021, 2025 & 2032
- 2.2 Extremely Thin Permalloy Foil Segment by Alloy Composition
 - 2.2.1 Ni-Fe 79/80 Series Permalloy Foil
 - 2.2.2 Ni-Fe-Mo Moly Permalloy Foil
 - 2.2.3 1J79 Permalloy Foil
 - 2.2.4 1J85 High-Permeability Permalloy Foil
 - 2.2.5 Others
 - 2.2.6 Extremely Thin Permalloy Foil Sales by Alloy Composition
 - 2.2.6.1 Global Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)
 - 2.2.6.2 Global Extremely Thin Permalloy Foil Revenue and Market Share by Alloy Composition (2021-2026)
 - 2.2.6.3 Global Extremely Thin Permalloy Foil Sale Price by Alloy Composition (2021-2026)
- 2.3 Extremely Thin Permalloy Foil Segment by Thickness Level
 - 2.3.1 Ultra-Thin Foil: <10 μm
 - 2.3.2 Extremely Thin Foil: 10–25 μm
 - 2.3.3 Thin Magnetic Foil: 25–50 μm
 - 2.3.4 Precision Soft Magnetic Strip Foil: >50–100 μm

2.3.5 Extremely Thin Permalloy Foil Sales by Thickness Level

2.3.5.1 Global Extremely Thin Permalloy Foil Sales Market Share by Thickness Level (2021-2026)

2.3.5.2 Global Extremely Thin Permalloy Foil Revenue and Market Share by Thickness Level (2021-2026)

2.3.5.3 Global Extremely Thin Permalloy Foil Sale Price by Thickness Level (2021-2026)

2.4 Extremely Thin Permalloy Foil Segment by Magnetic Performance

2.4.1 Standard Permeability Type: $\mu_i < 30,000$

2.4.2 High Permeability Type: $\mu_i 30,000\text{--}80,000$

2.4.3 Ultra-High Permeability Type: $\mu_i > 80,000\text{--}150,000$

2.4.4 Magnetic Shielding Grade Type: $\mu_{\text{max}} > 150,000$

2.4.5 Low Coercivity Grade Type: $H_c \leq 5 \text{ A/m}$

2.4.6 Others

2.4.7 Extremely Thin Permalloy Foil Sales by Magnetic Performance

2.4.7.1 Global Extremely Thin Permalloy Foil Sales Market Share by Magnetic Performance (2021-2026)

2.4.7.2 Global Extremely Thin Permalloy Foil Revenue and Market Share by Magnetic Performance (2021-2026)

2.4.7.3 Global Extremely Thin Permalloy Foil Sale Price by Magnetic Performance (2021-2026)

2.5 Extremely Thin Permalloy Foil Segment by Application

2.5.1 Electronics and Semiconductor

2.5.2 Aerospace and Defense

2.5.3 Medical Devices

2.5.4 Industrial Automation

2.5.5 Energy and Power Equipment

2.5.6 Precision Instruments and Sensors

2.5.7 Others

2.5.8 Extremely Thin Permalloy Foil Sales by Application

2.5.8.1 Global Extremely Thin Permalloy Foil Sale Market Share by Application (2021-2026)

2.5.8.2 Global Extremely Thin Permalloy Foil Revenue and Market Share by Application (2021-2026)

2.5.8.3 Global Extremely Thin Permalloy Foil Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Extremely Thin Permalloy Foil Breakdown Data by Company

- 3.1.1 Global Extremely Thin Permalloy Foil Annual Sales by Company (2021-2026)
- 3.1.2 Global Extremely Thin Permalloy Foil Sales Market Share by Company (2021-2026)
- 3.2 Global Extremely Thin Permalloy Foil Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Extremely Thin Permalloy Foil Revenue by Company (2021-2026)
 - 3.2.2 Global Extremely Thin Permalloy Foil Revenue Market Share by Company (2021-2026)
- 3.3 Global Extremely Thin Permalloy Foil Sale Price by Company
- 3.4 Key Manufacturers Extremely Thin Permalloy Foil Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Extremely Thin Permalloy Foil Product Location Distribution
 - 3.4.2 Players Extremely Thin Permalloy Foil Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EXTREMELY THIN PERMALLOY FOIL BY GEOGRAPHIC REGION

- 4.1 World Historic Extremely Thin Permalloy Foil Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Extremely Thin Permalloy Foil Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Extremely Thin Permalloy Foil Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Extremely Thin Permalloy Foil Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Extremely Thin Permalloy Foil Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Extremely Thin Permalloy Foil Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Extremely Thin Permalloy Foil Sales Growth
- 4.4 APAC Extremely Thin Permalloy Foil Sales Growth
- 4.5 Europe Extremely Thin Permalloy Foil Sales Growth
- 4.6 Middle East & Africa Extremely Thin Permalloy Foil Sales Growth

5 AMERICAS

5.1 Americas Extremely Thin Permalloy Foil Sales by Country

5.1.1 Americas Extremely Thin Permalloy Foil Sales by Country (2021-2026)

5.1.2 Americas Extremely Thin Permalloy Foil Revenue by Country (2021-2026)

5.2 Americas Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026)

5.3 Americas Extremely Thin Permalloy Foil Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Extremely Thin Permalloy Foil Sales by Region

6.1.1 APAC Extremely Thin Permalloy Foil Sales by Region (2021-2026)

6.1.2 APAC Extremely Thin Permalloy Foil Revenue by Region (2021-2026)

6.2 APAC Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026)

6.3 APAC Extremely Thin Permalloy Foil Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Extremely Thin Permalloy Foil by Country

7.1.1 Europe Extremely Thin Permalloy Foil Sales by Country (2021-2026)

7.1.2 Europe Extremely Thin Permalloy Foil Revenue by Country (2021-2026)

7.2 Europe Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026)

7.3 Europe Extremely Thin Permalloy Foil Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Extremely Thin Permalloy Foil by Country

8.1.1 Middle East & Africa Extremely Thin Permalloy Foil Sales by Country (2021-2026)

8.1.2 Middle East & Africa Extremely Thin Permalloy Foil Revenue by Country (2021-2026)

8.2 Middle East & Africa Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026)

8.3 Middle East & Africa Extremely Thin Permalloy Foil Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Extremely Thin Permalloy Foil

10.3 Manufacturing Process Analysis of Extremely Thin Permalloy Foil

10.4 Industry Chain Structure of Extremely Thin Permalloy Foil

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Extremely Thin Permalloy Foil Distributors

11.3 Extremely Thin Permalloy Foil Customer

12 WORLD FORECAST REVIEW FOR EXTREMELY THIN PERMALLOY FOIL BY

GEOGRAPHIC REGION

12.1 Global Extremely Thin Permalloy Foil Market Size Forecast by Region

12.1.1 Global Extremely Thin Permalloy Foil Forecast by Region (2027-2032)

12.1.2 Global Extremely Thin Permalloy Foil Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Extremely Thin Permalloy Foil Forecast by Alloy Composition (2027-2032)

12.7 Global Extremely Thin Permalloy Foil Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Daido Steel

13.1.1 Daido Steel Company Information

13.1.2 Daido Steel Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.1.3 Daido Steel Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Daido Steel Main Business Overview

13.1.5 Daido Steel Latest Developments

13.2 Proterial

13.2.1 Proterial Company Information

13.2.2 Proterial Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.2.3 Proterial Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Proterial Main Business Overview

13.2.5 Proterial Latest Developments

13.3 Hamilton Precision Metals (AMETEK)

13.3.1 Hamilton Precision Metals (AMETEK) Company Information

13.3.2 Hamilton Precision Metals (AMETEK) Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.3.3 Hamilton Precision Metals (AMETEK) Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Hamilton Precision Metals (AMETEK) Main Business Overview

13.3.5 Hamilton Precision Metals (AMETEK) Latest Developments

13.4 Arnold Magnetic Technologies

13.4.1 Arnold Magnetic Technologies Company Information

13.4.2 Arnold Magnetic Technologies Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.4.3 Arnold Magnetic Technologies Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Arnold Magnetic Technologies Main Business Overview

13.4.5 Arnold Magnetic Technologies Latest Developments

13.5 E-Song EMC

13.5.1 E-Song EMC Company Information

13.5.2 E-Song EMC Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.5.3 E-Song EMC Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 E-Song EMC Main Business Overview

13.5.5 E-Song EMC Latest Developments

13.6 HongerTech

13.6.1 HongerTech Company Information

13.6.2 HongerTech Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.6.3 HongerTech Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 HongerTech Main Business Overview

13.6.5 HongerTech Latest Developments

13.7 Shanghai Tankii Alloy Material

13.7.1 Shanghai Tankii Alloy Material Company Information

13.7.2 Shanghai Tankii Alloy Material Extremely Thin Permalloy Foil Product Portfolios and Specifications

13.7.3 Shanghai Tankii Alloy Material Extremely Thin Permalloy Foil Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shanghai Tankii Alloy Material Main Business Overview

13.7.5 Shanghai Tankii Alloy Material Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Extremely Thin Permalloy Foil Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Extremely Thin Permalloy Foil Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Ni-Fe 79/80 Series Permalloy Foil

Table 4. Major Players of Ni-Fe-Mo Moly Permalloy Foil

Table 5. Major Players of 1J79 Permalloy Foil

Table 6. Major Players of 1J85 High-Permeability Permalloy Foil

Table 7. Major Players of Others

Table 8. Global Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026) & (Tons)

Table 9. Global Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)

Table 10. Global Extremely Thin Permalloy Foil Revenue by Alloy Composition (2021-2026) & (\$ million)

Table 11. Global Extremely Thin Permalloy Foil Revenue Market Share by Alloy Composition (2021-2026)

Table 12. Global Extremely Thin Permalloy Foil Sale Price by Alloy Composition (2021-2026) & (US\$/kg)

Table 13. Major Players of Ultra-Thin Foil: $\leq 10 \mu\text{m}$

Table 14. Major Players of Extremely Thin Foil: $10\text{--}25 \mu\text{m}$

Table 15. Major Players of Thin Magnetic Foil: $25\text{--}50 \mu\text{m}$

Table 16. Major Players of Precision Soft Magnetic Strip Foil: $50\text{--}100 \mu\text{m}$

Table 17. Global Extremely Thin Permalloy Foil Sales by Thickness Level (2021-2026) & (Tons)

Table 18. Global Extremely Thin Permalloy Foil Sales Market Share by Thickness Level (2021-2026)

Table 19. Global Extremely Thin Permalloy Foil Revenue by Thickness Level (2021-2026) & (\$ million)

Table 20. Global Extremely Thin Permalloy Foil Revenue Market Share by Thickness Level (2021-2026)

Table 21. Global Extremely Thin Permalloy Foil Sale Price by Thickness Level (2021-2026) & (US\$/kg)

Table 22. Major Players of Standard Permeability Type: $\mu_i < 30,000$

Table 23. Major Players of High Permeability Type: $\mu_i 30,000\text{--}80,000$

Table 24. Major Players of Ultra-High Permeability Type: $\mu_i > 80,000$ –150,000
Table 25. Major Players of Magnetic Shielding Grade Type: $\mu_{\max} > 150,000$
Table 26. Major Players of Low Coercivity Grade Type: $H_c \leq 5$ A/m
Table 27. Major Players of Others
Table 28. Global Extremely Thin Permalloy Foil Sales by Magnetic Performance (2021-2026) & (Tons)
Table 29. Global Extremely Thin Permalloy Foil Sales Market Share by Magnetic Performance (2021-2026)
Table 30. Global Extremely Thin Permalloy Foil Revenue by Magnetic Performance (2021-2026) & (\$ million)
Table 31. Global Extremely Thin Permalloy Foil Revenue Market Share by Magnetic Performance (2021-2026)
Table 32. Global Extremely Thin Permalloy Foil Sale Price by Magnetic Performance (2021-2026) & (US\$/kg)
Table 33. Global Extremely Thin Permalloy Foil Sale by Application (2021-2026) & (Tons)
Table 34. Global Extremely Thin Permalloy Foil Sale Market Share by Application (2021-2026)
Table 35. Global Extremely Thin Permalloy Foil Revenue by Application (2021-2026) & (\$ million)
Table 36. Global Extremely Thin Permalloy Foil Revenue Market Share by Application (2021-2026)
Table 37. Global Extremely Thin Permalloy Foil Sale Price by Application (2021-2026) & (US\$/kg)
Table 38. Global Extremely Thin Permalloy Foil Sales by Company (2021-2026) & (Tons)
Table 39. Global Extremely Thin Permalloy Foil Sales Market Share by Company (2021-2026)
Table 40. Global Extremely Thin Permalloy Foil Revenue by Company (2021-2026) & (\$ millions)
Table 41. Global Extremely Thin Permalloy Foil Revenue Market Share by Company (2021-2026)
Table 42. Global Extremely Thin Permalloy Foil Sale Price by Company (2021-2026) & (US\$/kg)
Table 43. Key Manufacturers Extremely Thin Permalloy Foil Producing Area Distribution and Sales Area
Table 44. Players Extremely Thin Permalloy Foil Products Offered
Table 45. Extremely Thin Permalloy Foil Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 46. New Products and Potential Entrants

Table 47. Market M&A Activity & Strategy

Table 48. Global Extremely Thin Permalloy Foil Sales by Geographic Region
(2021-2026) & (Tons)

Table 49. Global Extremely Thin Permalloy Foil Sales Market Share Geographic Region
(2021-2026)

Table 50. Global Extremely Thin Permalloy Foil Revenue by Geographic Region
(2021-2026) & (\$ millions)

Table 51. Global Extremely Thin Permalloy Foil Revenue Market Share by Geographic
Region (2021-2026)

Table 52. Global Extremely Thin Permalloy Foil Sales by Country/Region (2021-2026) &
(Tons)

Table 53. Global Extremely Thin Permalloy Foil Sales Market Share by Country/Region
(2021-2026)

Table 54. Global Extremely Thin Permalloy Foil Revenue by Country/Region
(2021-2026) & (\$ millions)

Table 55. Global Extremely Thin Permalloy Foil Revenue Market Share by
Country/Region (2021-2026)

Table 56. Americas Extremely Thin Permalloy Foil Sales by Country (2021-2026) &
(Tons)

Table 57. Americas Extremely Thin Permalloy Foil Sales Market Share by Country
(2021-2026)

Table 58. Americas Extremely Thin Permalloy Foil Revenue by Country (2021-2026) &
(\$ millions)

Table 59. Americas Extremely Thin Permalloy Foil Sales by Alloy Composition
(2021-2026) & (Tons)

Table 60. Americas Extremely Thin Permalloy Foil Sales by Application (2021-2026) &
(Tons)

Table 61. APAC Extremely Thin Permalloy Foil Sales by Region (2021-2026) & (Tons)

Table 62. APAC Extremely Thin Permalloy Foil Sales Market Share by Region
(2021-2026)

Table 63. APAC Extremely Thin Permalloy Foil Revenue by Region (2021-2026) & (\$
millions)

Table 64. APAC Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026)
& (Tons)

Table 65. APAC Extremely Thin Permalloy Foil Sales by Application (2021-2026) &
(Tons)

Table 66. Europe Extremely Thin Permalloy Foil Sales by Country (2021-2026) & (Tons)

Table 67. Europe Extremely Thin Permalloy Foil Revenue by Country (2021-2026) & (\$

millions)

Table 68. Europe Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026) & (Tons)

Table 69. Europe Extremely Thin Permalloy Foil Sales by Application (2021-2026) & (Tons)

Table 70. Middle East & Africa Extremely Thin Permalloy Foil Sales by Country (2021-2026) & (Tons)

Table 71. Middle East & Africa Extremely Thin Permalloy Foil Revenue Market Share by Country (2021-2026)

Table 72. Middle East & Africa Extremely Thin Permalloy Foil Sales by Alloy Composition (2021-2026) & (Tons)

Table 73. Middle East & Africa Extremely Thin Permalloy Foil Sales by Application (2021-2026) & (Tons)

Table 74. Key Market Drivers & Growth Opportunities of Extremely Thin Permalloy Foil

Table 75. Key Market Challenges & Risks of Extremely Thin Permalloy Foil

Table 76. Key Industry Trends of Extremely Thin Permalloy Foil

Table 77. Extremely Thin Permalloy Foil Raw Material

Table 78. Key Suppliers of Raw Materials

Table 79. Extremely Thin Permalloy Foil Distributors List

Table 80. Extremely Thin Permalloy Foil Customer List

Table 81. Global Extremely Thin Permalloy Foil Sales Forecast by Region (2027-2032) & (Tons)

Table 82. Global Extremely Thin Permalloy Foil Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Americas Extremely Thin Permalloy Foil Sales Forecast by Country (2027-2032) & (Tons)

Table 84. Americas Extremely Thin Permalloy Foil Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. APAC Extremely Thin Permalloy Foil Sales Forecast by Region (2027-2032) & (Tons)

Table 86. APAC Extremely Thin Permalloy Foil Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 87. Europe Extremely Thin Permalloy Foil Sales Forecast by Country (2027-2032) & (Tons)

Table 88. Europe Extremely Thin Permalloy Foil Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Middle East & Africa Extremely Thin Permalloy Foil Sales Forecast by Country (2027-2032) & (Tons)

Table 90. Middle East & Africa Extremely Thin Permalloy Foil Revenue Forecast by

Country (2027-2032) & (\$ millions)

Table 91. Global Extremely Thin Permalloy Foil Sales Forecast by Alloy Composition (2027-2032) & (Tons)

Table 92. Global Extremely Thin Permalloy Foil Revenue Forecast by Alloy Composition (2027-2032) & (\$ millions)

Table 93. Global Extremely Thin Permalloy Foil Sales Forecast by Application (2027-2032) & (Tons)

Table 94. Global Extremely Thin Permalloy Foil Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 95. Daido Steel Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors

Table 96. Daido Steel Extremely Thin Permalloy Foil Product Portfolios and Specifications

Table 97. Daido Steel Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 98. Daido Steel Main Business

Table 99. Daido Steel Latest Developments

Table 100. Proterial Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors

Table 101. Proterial Extremely Thin Permalloy Foil Product Portfolios and Specifications

Table 102. Proterial Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 103. Proterial Main Business

Table 104. Proterial Latest Developments

Table 105. Hamilton Precision Metals (AMETEK) Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors

Table 106. Hamilton Precision Metals (AMETEK) Extremely Thin Permalloy Foil Product Portfolios and Specifications

Table 107. Hamilton Precision Metals (AMETEK) Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 108. Hamilton Precision Metals (AMETEK) Main Business

Table 109. Hamilton Precision Metals (AMETEK) Latest Developments

Table 110. Arnold Magnetic Technologies Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors

Table 111. Arnold Magnetic Technologies Extremely Thin Permalloy Foil Product Portfolios and Specifications

Table 112. Arnold Magnetic Technologies Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 113. Arnold Magnetic Technologies Main Business

Table 114. Arnold Magnetic Technologies Latest Developments
Table 115. E-Song EMC Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors
Table 116. E-Song EMC Extremely Thin Permalloy Foil Product Portfolios and Specifications
Table 117. E-Song EMC Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 118. E-Song EMC Main Business
Table 119. E-Song EMC Latest Developments
Table 120. HongerTech Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors
Table 121. HongerTech Extremely Thin Permalloy Foil Product Portfolios and Specifications
Table 122. HongerTech Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 123. HongerTech Main Business
Table 124. HongerTech Latest Developments
Table 125. Shanghai Tankii Alloy Material Basic Information, Extremely Thin Permalloy Foil Manufacturing Base, Sales Area and Its Competitors
Table 126. Shanghai Tankii Alloy Material Extremely Thin Permalloy Foil Product Portfolios and Specifications
Table 127. Shanghai Tankii Alloy Material Extremely Thin Permalloy Foil Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 128. Shanghai Tankii Alloy Material Main Business
Table 129. Shanghai Tankii Alloy Material Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Extremely Thin Permalloy Foil
- Figure 2. Extremely Thin Permalloy Foil Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Extremely Thin Permalloy Foil Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Extremely Thin Permalloy Foil Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Extremely Thin Permalloy Foil Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Extremely Thin Permalloy Foil Sales Market Share by Country/Region (2025)
- Figure 10. Extremely Thin Permalloy Foil Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Ni-Fe 79/80 Series Permalloy Foil
- Figure 12. Product Picture of Ni-Fe-Mo Moly Permalloy Foil
- Figure 13. Product Picture of 1J79 Permalloy Foil
- Figure 14. Product Picture of 1J85 High-Permeability Permalloy Foil
- Figure 15. Product Picture of Others
- Figure 16. Global Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition in 2026
- Figure 17. Global Extremely Thin Permalloy Foil Revenue Market Share by Alloy Composition (2021-2026)
- Figure 18. Product Picture of Ultra-Thin Foil: $\leq 10 \mu\text{m}$
- Figure 19. Product Picture of Extremely Thin Foil: $10\text{--}25 \mu\text{m}$
- Figure 20. Product Picture of Thin Magnetic Foil: $25\text{--}50 \mu\text{m}$
- Figure 21. Product Picture of Precision Soft Magnetic Strip Foil: $50\text{--}100 \mu\text{m}$
- Figure 22. Global Extremely Thin Permalloy Foil Sales Market Share by Thickness Level in 2026
- Figure 23. Global Extremely Thin Permalloy Foil Revenue Market Share by Thickness Level (2021-2026)
- Figure 24. Product Picture of Standard Permeability Type: $\mu_i < 30,000$
- Figure 25. Product Picture of High Permeability Type: $\mu_i 30,000\text{--}80,000$
- Figure 26. Product Picture of Ultra-High Permeability Type: $\mu_i > 80,000\text{--}150,000$
- Figure 27. Product Picture of Magnetic Shielding Grade Type: $\mu_{\text{max}} > 150,000$
- Figure 28. Product Picture of Low Coercivity Grade Type: $H_c \leq 5 \text{ A/m}$

Figure 29. Product Picture of Others

Figure 30. Global Extremely Thin Permalloy Foil Sales Market Share by Magnetic Performance in 2026

Figure 31. Global Extremely Thin Permalloy Foil Revenue Market Share by Magnetic Performance (2021-2026)

Figure 32. Extremely Thin Permalloy Foil Consumed in Electronics and Semiconductor

Figure 33. Global Extremely Thin Permalloy Foil Market: Electronics and Semiconductor (2021-2026) & (Tons)

Figure 34. Extremely Thin Permalloy Foil Consumed in Aerospace and Defense

Figure 35. Global Extremely Thin Permalloy Foil Market: Aerospace and Defense (2021-2026) & (Tons)

Figure 36. Extremely Thin Permalloy Foil Consumed in Medical Devices

Figure 37. Global Extremely Thin Permalloy Foil Market: Medical Devices (2021-2026) & (Tons)

Figure 38. Extremely Thin Permalloy Foil Consumed in Industrial Automation

Figure 39. Global Extremely Thin Permalloy Foil Market: Industrial Automation (2021-2026) & (Tons)

Figure 40. Extremely Thin Permalloy Foil Consumed in Energy and Power Equipment

Figure 41. Global Extremely Thin Permalloy Foil Market: Energy and Power Equipment (2021-2026) & (Tons)

Figure 42. Extremely Thin Permalloy Foil Consumed in Precision Instruments and Sensors

Figure 43. Global Extremely Thin Permalloy Foil Market: Precision Instruments and Sensors (2021-2026) & (Tons)

Figure 44. Extremely Thin Permalloy Foil Consumed in Others

Figure 45. Global Extremely Thin Permalloy Foil Market: Others (2021-2026) & (Tons)

Figure 46. Global Extremely Thin Permalloy Foil Sale Market Share by Application (2025)

Figure 47. Global Extremely Thin Permalloy Foil Revenue Market Share by Application in 2025

Figure 48. Extremely Thin Permalloy Foil Sales by Company in 2025 (Tons)

Figure 49. Global Extremely Thin Permalloy Foil Sales Market Share by Company in 2025

Figure 50. Extremely Thin Permalloy Foil Revenue by Company in 2025 (\$ millions)

Figure 51. Global Extremely Thin Permalloy Foil Revenue Market Share by Company in 2025

Figure 52. Global Extremely Thin Permalloy Foil Sales Market Share by Geographic Region (2021-2026)

Figure 53. Global Extremely Thin Permalloy Foil Revenue Market Share by Geographic

Region in 2025

Figure 54. Americas Extremely Thin Permalloy Foil Sales 2021-2026 (Tons)

Figure 55. Americas Extremely Thin Permalloy Foil Revenue 2021-2026 (\$ millions)

Figure 56. APAC Extremely Thin Permalloy Foil Sales 2021-2026 (Tons)

Figure 57. APAC Extremely Thin Permalloy Foil Revenue 2021-2026 (\$ millions)

Figure 58. Europe Extremely Thin Permalloy Foil Sales 2021-2026 (Tons)

Figure 59. Europe Extremely Thin Permalloy Foil Revenue 2021-2026 (\$ millions)

Figure 60. Middle East & Africa Extremely Thin Permalloy Foil Sales 2021-2026 (Tons)

Figure 61. Middle East & Africa Extremely Thin Permalloy Foil Revenue 2021-2026 (\$ millions)

Figure 62. Americas Extremely Thin Permalloy Foil Sales Market Share by Country in 2025

Figure 63. Americas Extremely Thin Permalloy Foil Revenue Market Share by Country (2021-2026)

Figure 64. Americas Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)

Figure 65. Americas Extremely Thin Permalloy Foil Sales Market Share by Application (2021-2026)

Figure 66. United States Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 67. Canada Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 68. Mexico Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 69. Brazil Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 70. APAC Extremely Thin Permalloy Foil Sales Market Share by Region in 2025

Figure 71. APAC Extremely Thin Permalloy Foil Revenue Market Share by Region (2021-2026)

Figure 72. APAC Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)

Figure 73. APAC Extremely Thin Permalloy Foil Sales Market Share by Application (2021-2026)

Figure 74. China Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 75. Japan Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Korea Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

Figure 77. Southeast Asia Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)

- Figure 78. India Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Australia Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 80. China Taiwan Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Europe Extremely Thin Permalloy Foil Sales Market Share by Country in 2025
- Figure 82. Europe Extremely Thin Permalloy Foil Revenue Market Share by Country (2021-2026)
- Figure 83. Europe Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)
- Figure 84. Europe Extremely Thin Permalloy Foil Sales Market Share by Application (2021-2026)
- Figure 85. Germany Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 86. France Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 87. UK Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Italy Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Russia Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Middle East & Africa Extremely Thin Permalloy Foil Sales Market Share by Country (2021-2026)
- Figure 91. Middle East & Africa Extremely Thin Permalloy Foil Sales Market Share by Alloy Composition (2021-2026)
- Figure 92. Middle East & Africa Extremely Thin Permalloy Foil Sales Market Share by Application (2021-2026)
- Figure 93. Egypt Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 94. South Africa Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 95. Israel Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 96. Turkey Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 97. GCC Countries Extremely Thin Permalloy Foil Revenue Growth 2021-2026 (\$ millions)
- Figure 98. Manufacturing Cost Structure Analysis of Extremely Thin Permalloy Foil in 2026
- Figure 99. Manufacturing Process Analysis of Extremely Thin Permalloy Foil
- Figure 100. Industry Chain Structure of Extremely Thin Permalloy Foil

Figure 101. Channels of Distribution

Figure 102. Global Extremely Thin Permalloy Foil Sales Market Forecast by Region (2027-2032)

Figure 103. Global Extremely Thin Permalloy Foil Revenue Market Share Forecast by Region (2027-2032)

Figure 104. Global Extremely Thin Permalloy Foil Sales Market Share Forecast by Alloy Composition (2027-2032)

Figure 105. Global Extremely Thin Permalloy Foil Revenue Market Share Forecast by Alloy Composition (2027-2032)

Figure 106. Global Extremely Thin Permalloy Foil Sales Market Share Forecast by Application (2027-2032)

Figure 107. Global Extremely Thin Permalloy Foil Revenue Market Share Forecast by Application (2027-2032)

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