

Global Permalloy Core Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/G0C1FCEA3C92EN.html

Date: January 2024 Pages: 112 Price: US\$ 3,480.00 (Single User License) ID: G0C1FCEA3C92EN

Abstracts

According to our (Global Info Research) latest study, the global Permalloy Core market size was valued at USD 225.3 million in 2023 and is forecast to a readjusted size of USD 309.6 million by 2030 with a CAGR of 4.6% during review period.

Permalloy is a metal alloy with a very high magnetic permeability. This makes the alloy useful in a wide range of applications when high magnetic permeability is desired. This report mainly focuses on permalloy (FeNi) with a nickel content in the range of 30-90%. Powder core, Tape Wound Core as well as Lamination Core are included. Permalloy powder core mainly covered MPP cores and High Flux cores.

Magnetics Molypermalloy Powder (MPP) cores are distributed air gap cores made from a 79% Nickel, 17% Iron, and 4% Molybdenum alloy powder for the lowest core losses of any powder core material. MPP cores offer the lowest core losses of any powder cores, making them ideally suited for flyback transformers, Buck/Boost and Power Factor Correction Inductors. The distributed air gap of an MPP core minimizes stray magnetic fields and eliminates gap loss problems associated with gapped ferrite cores. MPP cores are the ideal choice where high Q and high inductance stability under adverse magnetic and environmental conditions are needed such as In-line Noise Filters, High Q filters and Resonant Circuits.

Magnetics High Flux cores are distributed air gap cores made from a 50% Nickel and 50% Iron alloy powder for the highest available biasing capability of any powder core material. High Flux Powder Cores are naturally suited for the energy storage filter inductors used in switch-mode power supplies. The 15,000 gauss saturation level of High Flux cores provides a higher energy storage capability than can be obtained with gapped ferrites or powdered iron cores of the same size and effective permeability.



Global key players of permalloy core include CSC (Changsung Corp.), MAGNETICS, Dongbu Electronic Materials, etc. The top three players hold a share over 40%.

South Korea is the largest producer, has a share about 28%.

In terms of product type, PC (77~85%Ni) is the largest segment, occupied for a share of 71%, and in terms of application, inductors has a share about 41 percent.

The Global Info Research report includes an overview of the development of the Permalloy Core industry chain, the market status of Inductors (PB (45~51%Ni), PC (77~85%Ni)), Transformers (PB (45~51%Ni), PC (77~85%Ni)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Permalloy Core.

Regionally, the report analyzes the Permalloy Core markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Permalloy Core market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Permalloy Core market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Permalloy Core industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., PB (45~51%Ni), PC (77~85%Ni)).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Permalloy Core market.



Regional Analysis: The report involves examining the Permalloy Core market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Permalloy Core market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Permalloy Core:

Company Analysis: Report covers individual Permalloy Core manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Permalloy Core This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Inductors, Transformers).

Technology Analysis: Report covers specific technologies relevant to Permalloy Core. It assesses the current state, advancements, and potential future developments in Permalloy Core areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Permalloy Core market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Permalloy Core market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type



PB (45~51%Ni)

PC (77~85%Ni)

Others

Market segment by Application

Inductors

Transformers

Current Transformers

Others

Major players covered

CSC (Changsung Corp.)

MAGNETICS

Dongbu Electronic Materials

Micrometals, Inc.

ZheJiang NBTM KeDa (KDM)

Magnetic Shields Ltd

Xiamen ZTC Technology

Jiangsu Hongyun Precision

Samwha Electronics

DMEGC

Global Permalloy Core Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030



CMSS Technology

Foshan Teeyo Technology

Shenzhen Jinxin Magnetic Material

Beijing Beiye Functional Materials Corporation

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Permalloy Core product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Permalloy Core, with price, sales, revenue and global market share of Permalloy Core from 2019 to 2024.

Chapter 3, the Permalloy Core competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Permalloy Core breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share



and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Permalloy Core market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Permalloy Core.

Chapter 14 and 15, to describe Permalloy Core sales channel, distributors, customers, research findings and conclusion.



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