

Global Ferrite Rod Core Inductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ferrite Rod Core Inductor market size is expected to reach \$ 183 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global ferrite rod core inductors production reached approximately 22447 k units, the average price is 6 usd/unit. Ferrite rod core inductors are non-closed magnetic circuit inductors/inductive elements formed by directly winding enameled coils onto a ferrite rod. The magnetic circuit is mainly closed by the surrounding air, so the magnetic shielding is weak and easily affected by nearby metals and distributed capacitance. They are commonly used for AM radio antenna tuning, RF chokes and simple LC filtering. The inductance value varies approximately with the square of the number of turns and the rod's permeability. They can also be made into a slide wire adjustable form.

Market Concentration and Major Players:

Internationally, the market for ferrite rod-core inductors is highly concentrated, mainly in developed countries in Europe and America. Large manufacturers include W?rth Elektronik and Nifer. Domestically, ferrite rod-core inductors still have significant room for development.

Manufacturing Process and Market Trends:

The magnetic rod body of a ferrite rod-core inductor is made by mixing, pre-firing, pulverizing, and granulating iron-manganese-zinc or iron-nickel-zinc oxides using ceramic processes, pressing it into a rod blank, and then sintering it at high temperature to form a ceramic rod body. After sintering, the end faces are ground and the

appearance is sorted to ensure consistent dimensions and magnetic properties. Then, on an automatic winding machine, enameled copper wire is tightly wound around the rod body or pre-wound onto a sliding sleeve frame and then fixed. Thin insulating paper or polyimide tape separates the layers, and the coil shape is locked by adhesive or heat-shrink tubing. The wire ends are stripped, tinned, and led to straight legs or leads. The entire unit is then epoxy-impregnated or coated for moisture protection and curing. Finally, each inductor's Q value and insulation resistance are measured to screen it before shipment. While the demand for tuning traditional AM radio antennas is shrinking, this type of rod-core structure still retains a niche in the high-stability material requirements of RFID coil frame near-field coupling elements, vehicle keyless entry, and tire pressure antennas. The greater trend is towards magnetic circuit components moving towards higher Q and lower loss formulations, thinner walls, lightweight designs, and integrated injection molding inserts. At the same time, wireless charging and EMI suppression are increasingly being replaced by flexible ferrite sheets and closed magnetic circuit solutions, causing purely open rod-core inductors to gradually retreat to specific receiving and low-cost choke scenarios.

This report studies the global Ferrite Rod Core Inductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ferrite Rod Core Inductor 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 Ferrite Rod Core Inductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ferrite Rod Core Inductor total production and demand, 2021-2032, (K Units)

Global Ferrite Rod Core Inductor total production value, 2021-2032, (USD Million)

Global Ferrite Rod Core Inductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ferrite Rod Core Inductor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ferrite Rod Core Inductor domestic production, consumption, key domestic manufacturers and share

Global Ferrite Rod Core Inductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ferrite Rod Core Inductor production by Materials, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

Global Ferrite Rod Core Inductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ferrite Rod Core Inductor 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 W?rth Elektronik (German), Triple M Auto Electronics Private Limited (India), Neosid (German), Fastron (German), Nifer (Hungary), Alisha Coils & Transformers (India), Coil Winding Specialist (USA), Custom Coils (USA), Shah Ferrite Coils (India), Rorak Enterprises (India), 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 Ferrite Rod Core Inductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Materials, 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 Ferrite Rod Core Inductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ferrite Rod Core Inductor Market, Segmentation by Materials:

Manganese Zinc Ferrite Rod Core Inductor

Nickel Zinc Ferrite Rod Core Inductor

Other

Global Ferrite Rod Core Inductor Market, Segmentation by Inductance:

1?10 ?H

10?100 ?H

100?1000 ?H

Above 1000 ?H

Global Ferrite Rod Core Inductor Market, Segmentation by Structure:

Winding

Sleeve

Global Ferrite Rod Core Inductor Market, Segmentation by Application:

Consumer Electronics

Communication Industrial

Household Electric Appliances

Automobile Industrial

Other

Companies Profiled:

W?rth Elektronik (German)

Triple M Auto Electronics Private Limited (India)

Neosid (German)

Fastron (German)

Nifer (Hungary)

Alisha Coils & Transformers (India)

Coil Winding Specialist (USA)

Custom Coils (USA)

Shah Ferrite Coils (India)

Rorak Enterprises (India)

Huzhou Careful Magnetism(China)

Shenzhen Codaca Electronic(China)

Key Questions Answered:

1. How big is the global Ferrite Rod Core Inductor market?
2. What is the demand of the global Ferrite Rod Core Inductor market?
3. What is the year over year growth of the global Ferrite Rod Core Inductor market?
4. What is the production and production value of the global Ferrite Rod Core Inductor

market?

5. Who are the key producers in the global Ferrite Rod Core Inductor market?

6. What are the growth factors driving the market demand?

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