

Global Nickel Plated Steel for Battery Jacket Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nickel Plated Steel for Battery Jacket market size is expected to reach \$ 876 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Nickel-plated steel for battery jackets is a functional battery casing material based on low-carbon deep-drawing steel strip, ultra-low-carbon steel strip, stainless steel, or alloy steel substrates, and produced through single-side nickel plating, double-side nickel plating, diffusion annealing, surface finishing, and slitting. It is mainly used for steel cans, covers, bottom caps, and sealing structures of cylindrical lithium-ion batteries, alkaline batteries, nickel-metal hydride batteries, nickel-cadmium batteries, zinc-air batteries, and other specialty batteries. The core function of this product is to provide a casing material foundation with corrosion resistance, electrical conductivity, rust prevention, stable formability, and dimensional consistency under high-speed stamping, deep drawing, electrolyte exposure, and long-term storage conditions.

The industry value of nickel-plated steel for battery jackets comes from the upgrading of battery casing materials from ordinary rust-resistant steel strip to functional materials with high consistency, strong corrosion resistance, and excellent formability. Traditional dry cells and alkaline batteries have long used nickel-plated steel as casing material, but new-energy cylindrical lithium-ion batteries have further raised the material requirements. A cylindrical cell casing must not only withstand mechanical deformation during deep drawing, grooving, sealing, and subsequent assembly, but also maintain corrosion resistance in electrolyte environments and long-term storage conditions, while providing stable electrical conductivity and safety protection within the cell structure.

From the demand side, nickel-plated steel for battery jackets is in a stage where stable

demand from traditional consumer batteries and growing demand from new-energy cylindrical batteries coexist. Power batteries remain one of the strongest downstream growth drivers. As electric vehicles, energy storage systems, power tools, personal mobility devices, and cordless household appliances continue to grow, nickel-plated steel materials are expanding from traditional alkaline battery casing materials to high-safety cylindrical lithium-ion battery casing materials.

From the supply structure perspective, Japanese, European, Korean, and Chinese companies all participate in the competition. Japanese and European companies have accumulated deeper capabilities in plating control, diffusion annealing, deep-drawing steel substrates, and customer qualification. Korean companies are expanding nickel-plated steel capacity by leveraging the power battery industry chain, while Chinese companies are accelerating entry through pre-nickel-plated steel strip and new-energy battery casing material production lines.

This report studies the global Nickel Plated Steel for Battery Jacket production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nickel Plated Steel for Battery Jacket 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 Nickel Plated Steel for Battery Jacket that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nickel Plated Steel for Battery Jacket total production and demand, 2021-2032, (Tons)

Global Nickel Plated Steel for Battery Jacket total production value, 2021-2032, (USD Million)

Global Nickel Plated Steel for Battery Jacket production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nickel Plated Steel for Battery Jacket consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nickel Plated Steel for Battery Jacket domestic production, consumption, key domestic manufacturers and share

Global Nickel Plated Steel for Battery Jacket production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nickel Plated Steel for Battery Jacket production by Plating Structure, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nickel Plated Steel for Battery Jacket production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nickel Plated Steel for Battery Jacket 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 Nippon Steel, Toyo Kohan, Tata Steel Nederland, TCC Steel, Dongkuk Industries, EAST-NINESKY, Yongjin Technology Group, Jiangsu Vigorous Metal Technology, Hunan Yongsheng New Material, Zhongshan Sanmei High-Tech Materials, 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 Nickel Plated Steel for Battery Jacket market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Plating Structure, 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 Nickel Plated Steel for Battery Jacket Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nickel Plated Steel for Battery Jacket Market, Segmentation by Plating Structure:

Single-Side Nickel Plated

Double-Side Nickel Plated

Global Nickel Plated Steel for Battery Jacket Market, Segmentation by Substrate Type:

Low-Carbon Steel Substrate

Ultra-Low-Carbon Steel Substrate

Stainless Steel Substrate

Alloy Steel Substrate

Other

Global Nickel Plated Steel for Battery Jacket Market, Segmentation by Surface Finish:

Bright Finish

Fine Texture Finish

Matte Finish

Rough Matte Finish

Other

Global Nickel Plated Steel for Battery Jacket Market, Segmentation by Application:

Cylindrical Lithium Battery Jacket

Alkaline Battery Jacket

Zinc-Manganese Dry Battery Jacket

Nickel-Metal Hydride Battery Jacket

Nickel-Cadmium Battery Jacket

Primary Lithium Battery Jacket

Zinc-Air Battery Jacket

Other

Companies Profiled:

Nippon Steel

Toyo Kohan

Tata Steel Nederland

TCC Steel

Dongkuk Industries

EAST-NINESKY

Yongjin Technology Group

Jiangsu Vigorous Metal Technology

Hunan Yongsheng New Material

Zhongshan Sanmei High-Tech Materials

Key Questions Answered:

1. How big is the global Nickel Plated Steel for Battery Jacket market?
2. What is the demand of the global Nickel Plated Steel for Battery Jacket market?
3. What is the year over year growth of the global Nickel Plated Steel for Battery Jacket market?
4. What is the production and production value of the global Nickel Plated Steel for Battery Jacket market?
5. Who are the key producers in the global Nickel Plated Steel for Battery Jacket market?
6. What are the growth factors driving the market demand?

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