

Global Plate-Like Nano Nickel Hydroxide Market Growth 2026-2032

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Abstracts

The global Plate-Like Nano Nickel Hydroxide market size is predicted to grow from US\$ 15.36 million in 2025 to US\$ 20.96 million in 2032; it is expected to grow at a CAGR of 4.6% from 2026 to 2032.

Plate-like nano nickel hydroxide is a functional nanomaterial based on nickel hydroxide ($\text{Ni}(\text{OH})_2$), characterized by nanoscale thickness and a two-dimensional sheet-like crystal structure. It is typically synthesized via methods such as chemical precipitation, hydrothermal synthesis, solvothermal synthesis, or microemulsion techniques. The material generally features particle sizes ranging from tens to hundreds of nanometers and a thickness of less than 100 nm, offering a high specific surface area, high crystallinity, abundant active sites, and excellent electrochemical performance.

The upstream segment of the industry chain primarily comprises raw materials such as nickel metal and nickel salts (e.g., nickel sulfate, nickel chloride), as well as chemical auxiliaries like sodium hydroxide, aqueous ammonia, surfactants, and dispersants; it also involves equipment for reaction, filtration, drying, calcination, and nanopowder preparation. The midstream segment consists of enterprises engaged in the R&D and production of nanosheet nickel hydroxide; these companies utilize processes such as chemical precipitation, hydrothermal synthesis, solvothermal synthesis, and microemulsion methods to manufacture products with high specific surface area, high crystallinity, and uniform sheet-like structures, while controlling parameters such as particle size, thickness, and surface modification. Downstream applications primarily span fields such as electrocatalysis, energy storage, and battery materials.

In 2025, global sales volume for plate-like nano nickel hydroxide reached 686 tons, with a production capacity of approximately 980 tons; the average selling price was US\$22.9

per kilogram, and the average gross profit margin ranged from 30% to 40%.

The continued advancement of global support policies for the new energy, new materials, and hydrogen energy industries has created a favorable market environment for the development of flake-like nano-nickel hydroxide. Nations are increasingly investing in the R&D of advanced energy storage materials, electrocatalytic materials, and green hydrogen production technologies, thereby driving the industrial application of high-performance nano-nickel-based materials in sectors such as energy storage, electrocatalysis, and environmental protection. Meanwhile, green manufacturing processes, low-energy production methods, and recycling technologies have emerged as key directions for the industry's development.

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

This Insight Report provides a comprehensive analysis of the global Plate-Like Nano Nickel Hydroxide 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 Plate-Like Nano Nickel Hydroxide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plate-Like Nano Nickel Hydroxide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plate-Like Nano Nickel Hydroxide and breaks down the forecast by Type, 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 Plate-Like Nano Nickel Hydroxide.

This report presents a comprehensive overview, market shares, and growth opportunities of Plate-Like Nano Nickel Hydroxide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

? Type

? Type

Segmentation by Purity:

99-99.9%

99.9-99.99%

?99.99%

Segmentation by Specific Surface Area:

50-100 m²/g

100–200 m²/g

Segmentation by Application:

Electrocatalysis

Energy Storage

Battery Materials

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.

Nornickel

SMM Group

Kansai Catalyst

Tanaka-Chemical

American Elements

SkySpring Nanomaterials

AVIC Nano

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plate-Like Nano Nickel Hydroxide market?

What factors are driving Plate-Like Nano Nickel Hydroxide market growth, globally and by region?

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

How do Plate-Like Nano Nickel Hydroxide market opportunities vary by end market size?

How does Plate-Like Nano Nickel Hydroxide break out by Type, by Application?

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