

Global Electrolyzer Nickel Base Electrode Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Electrolyzer Nickel Base Electrode market size was valued at US\$ 99 million in 2024 and is forecast to a readjusted size of USD 159 million by 2031 with a CAGR of 7.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Electrolyzer nickel-base electrodes are key components in electrochemical devices that use electricity to split water into hydrogen and oxygen. These electrodes, typically made of nickel or nickel alloys (e.g., nickel-iron, nickel-molybdenum), serve as catalysts to facilitate the hydrogen evolution reaction (HER) at the cathode and the oxygen evolution reaction (OER) at the anode. Nickel is chosen due to its relatively good electrocatalytic activity, corrosion resistance in alkaline electrolytes, and cost-effectiveness compared to more noble metals.

The industry trend for electrolyzer nickel-base electrodes is driven by the increasing demand for green hydrogen production. Key trends include improving the electrocatalytic activity and durability of nickel-based materials through alloying, surface modification (e.g., coatings, nano-structuring), and the development of novel electrode architectures. Research is focused on enhancing the performance of both the HER and OER, particularly the OER, which is often the rate-limiting step in water electrolysis. There's a strong push to reduce or eliminate the use of precious metal catalysts (like platinum or iridium) to lower costs. This involves developing advanced nickel-based catalysts with comparable or superior performance. Another trend is the development of

more stable and corrosion-resistant electrodes for operation in different types of electrolyzers, such as alkaline, proton exchange membrane (PEM), and solid oxide electrolyzers. There's also a growing interest in using earth-abundant materials and sustainable manufacturing processes for electrode production. The overall goal is to achieve high efficiency, long-term stability, and cost-effectiveness for large-scale hydrogen production.

This report is a detailed and comprehensive analysis for global Electrolyzer Nickel Base Electrode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electrolyzer Nickel Base Electrode market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electrolyzer Nickel Base Electrode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electrolyzer Nickel Base Electrode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electrolyzer Nickel Base Electrode market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electrolyzer Nickel Base Electrode

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electrolyzer Nickel Base Electrode market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include De Nora, AdorFon, HILCO, ERIKS, Solano, Yingrui Technology, Baoshilai, Hengchuan Technology, Shanghai Juna, Aodeyuan, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Electrolyzer Nickel Base Electrode market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Ni4

Ni6

Others

Market segment by Application

Electrolyzer

Fuel Cell

Major players covered

De Nora

AdorFon

HILCO

ERIKS

Solano

Yingrui Technology

Baoshilai

Hengchuan Technology

Shanghai Juna

Aodeyuan

Handan Keling

Liaoning Kelong

BGRIMM

Jiangsu Laiyang

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 Electrolyzer Nickel Base Electrode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electrolyzer Nickel Base Electrode, with price, sales quantity, revenue, and global market share of Electrolyzer Nickel Base Electrode from 2020 to 2025.

Chapter 3, the Electrolyzer Nickel Base Electrode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electrolyzer Nickel Base Electrode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Electrolyzer Nickel Base Electrode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Electrolyzer Nickel Base Electrode.

Chapter 14 and 15, to describe Electrolyzer Nickel Base Electrode sales channel, distributors, customers, research findings and conclusion.

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