

Global Nickel-Iron-Based Oxygen Evolution Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nickel-Iron-Based Oxygen Evolution Catalyst market size was valued at US\$ 65.85 million in 2025 and is forecast to a readjusted size of US\$ 336 million by 2032 with a CAGR of 25.9% during review period.

Nickel-iron-based oxygen evolution reaction (OER) catalysts are non-precious metal catalysts with active components such as NiFe-LDH, NiFeOOH, NiFeOx/NiFe₂O₃, and their doped or composite variants. They are primarily used as anodes in alkaline and anion exchange membrane (AEM) water electrolysis, and are also applied in seawater electrolysis, metal-air batteries, and electrochemical sensors. These catalysts are typically delivered as powders, dispersions, coated electrodes, or self-supporting electrodes, with industry gross margins generally ranging from 35% to 50%.

The main value proposition of NiFe-based OER catalysts is to replace part of the traditional precious-metal anode catalysts with a low-cost, non-precious metal system, primarily for alkaline water electrolysis and AEM electrolyzer routes, rather than the iridium-based systems used in acidic PEM electrolyzers. Currently, the market is still in the R&D, pilot verification, and small-batch introduction stage, with orders concentrated on powders, catalyst inks, coated electrodes, and custom samples. A fully standardized bulk material market has not yet formed.

Future growth will depend on the scaling of AEM electrolyzers, upgrades to alkaline electrolyzer anodes, and continued validation by electrolyzer manufacturers for high current density, long life, and low-cost anode materials. Beyond catalytic activity, customers place more importance on electrode-level adhesion stability, batch-to-batch

consistency, alkali corrosion resistance, and compatibility with scalable coating processes. Therefore, in the short term, this market behaves as an 'introductory high-performance material + electrode process support' segment, and will expand further as AEM and next-generation alkaline electrolyzers are commercialized.

This report is a detailed and comprehensive analysis for global Nickel-Iron-Based Oxygen Evolution Catalyst 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 Nickel-Iron-Based Oxygen Evolution Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nickel-Iron-Based Oxygen Evolution Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nickel-Iron-Based Oxygen Evolution Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Nickel-Iron-Based Oxygen Evolution Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

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 Nickel-Iron-Based Oxygen Evolution Catalyst

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 Nickel-Iron-Based Oxygen Evolution Catalyst 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 MSE Supplies, Nanochemazone, Stanford Advanced Materials, US Research Nanomaterials, Nanografi, ALB Materials, SAT Nano, MKnano, etc.

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

Market Segmentation

Nickel-Iron-Based Oxygen Evolution Catalyst market is split by Type and by Application. For the period 2021-2032, 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

NiFe Layered Double Hydroxide Catalyst

NiFe Oxyhydroxide Catalyst

Nickel Iron Oxide Catalyst

Nickel Ferrite Catalyst

NiFe Pre-Catalyst and Derivative

Market segment by Delivery Form

Catalyst Powder

Catalyst Ink or Dispersion

Coated Electrode

Self-Supported Electrode

Catalyst-Coated Membrane Assembly

Market segment by Structure Morphology

Nanosheet or Nanoplate

Nanoparticle Powder

Porous or Aerogel Structure

Film or Coating

Hierarchical Array

Market segment by Modification Method

Binary NiFe Catalyst

Heteroatom-Doped NiFe Catalyst

Defect-Engineered NiFe Catalyst

Supported Composite NiFe Catalyst

Heterostructure NiFe Catalyst

Market segment by Application

Alkaline Water Electrolysis

AEM Water Electrolysis

Alkaline Seawater Electrolysis

Rechargeable Metal-Air Batteries

Electrochemical Sensors

Supercapacitor Electrodes

Major players covered

MSE Supplies

Nanochemazone

Stanford Advanced Materials

US Research Nanomaterials

Nanografi

ALB Materials

SAT Nano

MKnano

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 Nickel-Iron-Based Oxygen Evolution Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nickel-Iron-Based Oxygen Evolution Catalyst, with price, sales quantity, revenue, and global market share of Nickel-Iron-Based Oxygen Evolution Catalyst from 2021 to 2026.

Chapter 3, the Nickel-Iron-Based Oxygen Evolution Catalyst competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nickel-Iron-Based Oxygen Evolution Catalyst breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Nickel-Iron-Based Oxygen Evolution Catalyst market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Nickel-Iron-Based Oxygen Evolution Catalyst.

Chapter 14 and 15, to describe Nickel-Iron-Based Oxygen Evolution Catalyst sales channel, distributors, customers, research findings and conclusion.

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