

# Global PEM Hydrogen Production 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 PEM Hydrogen Production Catalyst market size was valued at US\$ 133 million in 2025 and is forecast to a readjusted size of US\$ 236 million by 2032 with a CAGR of 8.6% during review period.

In 2025, global PEM Hydrogen Production Catalyst production reached approximately 5.16 tons with an average global market price of around k US\$25 per kg. Single-line annual production capacity averages 500 kg with a gross margin of approximately 6-8%. The upstream of the proton exchange membrane water electrolysis hydrogen production catalyst industry chain mainly focuses on the R&D and manufacturing of precious metal materials (particularly scarce metals like iridium and platinum) and composite membrane electrode assemblies. In terms of downstream applications, the energy sector (green hydrogen production) accounts for approximately 50% of consumption, the chemical industry (synthetic ammonia, refining, etc.) for about 30%, transportation fuel cell vehicles for around 15%, and other applications for roughly 5%. Current demand is primarily driven by the global energy transition and the scaling-up of green hydrogen projects, with an urgent need for technological breakthroughs in low-iridium/non-precious metal catalysts and high-stability membrane electrodes. The main business opportunities lie in the localization of high-performance catalysts to replace imports, iridium resource recycling technologies, and integrated solutions for electrolyzer systems coupled with renewable energy sources.

The PEM Hydrogen Production Catalyst serves to facilitate the critical electrochemical reaction of water splitting within a proton exchange membrane (PEM) electrolyzer. Operating in a highly acidic environment, it ensures both high activity for oxygen

evolution at the anode—often relying on iridium-based materials for durability—and efficient hydrogen evolution at the cathode, typically using platinum or platinum-group metals. Its design directly addresses the need for rapid response to intermittent renewable power inputs, offering superior electrical efficiency, compact system integration, and sustained performance under dynamic operating conditions. Ultimately, this catalyst enables the production of high-purity hydrogen with minimal energy loss, forming the core of scalable, grid-responsive green hydrogen systems.

The future of PEM Hydrogen Production Catalysts will focus on two core directions: 'reducing dependence on precious metals' and 'innovating material systems.' On one hand, the industry is making comprehensive efforts to address the long-term stability issues of low-iridium and non-precious metal catalysts in acidic environments. Through approaches such as single-atom dispersion and composite transition metal compounds, the goal is to break free from resource constraints. On the other hand, catalyst design increasingly emphasizes overall synergy with membrane electrode assemblies. For instance, the use of porous supports to fabricate ultra-thin catalyst layers and the regulation of proton transport at three-phase interfaces enhance current density and adaptability to the fluctuating conditions of renewable energy. From a manufacturing perspective, the focus of large-scale production has shifted toward continuous coating processes and slurry formulation optimization to ensure performance consistency and cost control. Behind these advancements lies the transformation of catalysts from single-function materials into 'electrochemical engines' that integrate activity, conductivity, mechanical stability, and dynamic responsiveness. The ultimate goal is not only to reduce the electricity consumption per kilogram of hydrogen produced but also to develop hydrogen production systems capable of flexibly integrating wind and solar power, thereby driving green hydrogen from demonstration projects toward industrialization.

This report is a detailed and comprehensive analysis for global PEM Hydrogen Production Catalyst market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Reaction Function 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 PEM Hydrogen Production Catalyst market size and forecasts, in consumption

*Global PEM Hydrogen Production Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast...*

value (\$ Million), sales quantity (Tons), and average selling prices (K US\$/kg), 2021-2032

Global PEM Hydrogen Production Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (K US\$/kg), 2021-2032

Global PEM Hydrogen Production Catalyst market size and forecasts, by Reaction Function and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (K US\$/kg), 2021-2032

Global PEM Hydrogen Production Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (K 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 PEM Hydrogen Production 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 PEM Hydrogen Production 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 Johnson Matthey, Tanaka, Heraeus, Umicore, Clariant, Shanghai Jiping New Energy Technology, Ningbo Zhongke Cotrun New Energy Science & Technology, Hangzhou Kaida Metal Catalyst and Compounds, SuZhou Hydrogine Power Technology, Zhejiang Fumei Metal, etc.

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

### **Market Segmentation**

PEM Hydrogen Production Catalyst market is split by Reaction Function and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Reaction Function, 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 Reaction Function

OER Catalyst

HER Catalyst

OER & HER

#### Market segment by Precious Metal Type

Iridium-based Catalyst

Platinum-based Catalyst

Rhodium-based Catalyst

Ruthenium-based Catalyst

Others

#### Market segment by Structure

Porous Catalyst

Nanoparticle Catalyst

#### Market segment by Application

Energy

Chemicals

Automotive

Others

#### Major players covered

Johnson Matthey

Tanaka

Heraeus

Umicore

Clariant

Shanghai Jiping New Energy Technology

Ningbo Zhongke Cotrun New Energy Science & Technology

Hangzhou Kaida Metal Catalyst and Compounds

SuZhou Hydrogine Power Technology

Zhejiang Fumei Metal

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 PEM Hydrogen Production Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PEM Hydrogen Production Catalyst, with price, sales quantity, revenue, and global market share of PEM Hydrogen Production Catalyst from 2021 to 2026.

Chapter 3, the PEM Hydrogen Production Catalyst competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PEM Hydrogen Production 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 Reaction Function and by Application, with sales market share and growth rate by Reaction Function, 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 PEM Hydrogen Production Catalyst market forecast, by regions, by Reaction Function, 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 PEM Hydrogen Production Catalyst.

Chapter 14 and 15, to describe PEM Hydrogen Production Catalyst sales channel, distributors, customers, research findings and conclusion.

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