

Global PEM Water Electrolysis Iridium 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 Water Electrolysis Iridium Catalyst market size was valued at US\$ 1852 million in 2025 and is forecast to a readjusted size of US\$ 4287 million by 2032 with a CAGR of 12.7% during review period.

PEM water electrolysis iridium catalysts are iridium-based electrocatalysts used at the anode for the oxygen evolution reaction (OER) in proton exchange membrane (PEM) water electrolysis. The main forms include iridium oxide, iridium black, iridium-ruthenium oxides, doped iridium oxides, and support-supported iridium oxides. They are delivered as powders, inks, coated catalyst layers, or within membrane electrode assemblies (MEAs). The estimated overall gross margin is approximately 45%.

The market is primarily driven by the scaling of PEM electrolyzers and the need to reduce precious metal costs at the anode. PEM systems are characterized by high current density, rapid start-stop capability, and compatibility with variable renewable energy inputs. New green hydrogen projects directly increase demand for MEAs, catalyst-coated membranes (CCMs), and iridium-based OER catalysts. Commercially, the market remains heavily dependent on iridium oxide or iridium-based composites, with buyers focusing on iridium content, specific surface area, crystallography, stability, degradation over cycling, and batch-to-batch consistency.

The key growth challenge is not replacing iridium, but reducing iridium consumption per unit power while maintaining catalyst lifetime. Research and adoption are focusing on low-iridium, ultra-low-iridium, support-supported iridium oxide, and iridium-ruthenium composite systems. Price volatility and concentrated supply of iridium have led buyers

to emphasize closed-loop recovery, supply security, and long-term framework agreements. Leading international precious metal suppliers maintain control over high-end customers and recycling systems, while domestic suppliers are increasing market share through kilogram-scale production, localization validation, and demonstration project deployment.

Short-term market growth is affected by green hydrogen project delays and PEM electrolyzer utilization rates, causing shipment fluctuations. In the medium to long term, policy targets, industrial decarbonization, and large-scale electrolyzer deployment will expand demand. Due to the scarcity of iridium, future competition will focus on low-loading formulations, commercial lifetime data, MEA process compatibility, and precious metal recovery capabilities.

This report is a detailed and comprehensive analysis for global PEM Water Electrolysis Iridium 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 PEM Water Electrolysis Iridium Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global PEM Water Electrolysis Iridium 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 PEM Water Electrolysis Iridium 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 PEM Water Electrolysis Iridium 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:

Global PEM Water Electrolysis Iridium Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Fo...

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

To assess the growth potential for PEM Water Electrolysis Iridium 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 Water Electrolysis Iridium 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 Heraeus Precious Metals, TANAKA Precious Metals, Umicore, Johnson Matthey, BASF ECMS, Pajarito Powder, 3M, Jiping New Energy, Shengshui Technology, American Elements, etc.

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

Market Segmentation

PEM Water Electrolysis Iridium 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

Catalyst Powder

Catalyst Ink

Catalyst-Coated Membrane

Catalyst-Coated Electrode

Market segment by Catalyst Chemistry

Iridium Oxide Catalyst

Iridium Black Catalyst

Iridium-Ruthenium Oxide Catalyst

Doped Iridium Oxide Catalyst

Supported Iridium Oxide Catalyst

Market segment by Iridium Content

High-Iridium Catalyst

Medium-Iridium Catalyst

Low-Iridium Catalyst

Ultra-Low-Iridium Catalyst

Market segment by Support System

Unsupported Catalyst

Oxide-Supported Catalyst

Conductive-Oxide-Supported Catalyst

Hybrid-Support Catalyst

Market segment by Application

Commercial PEM Electrolyzer Manufacturing

PEM MEA and CCM Manufacturing

Pilot and Demonstration Hydrogen Systems

Catalyst Ink and Coating Process Development

Electrochemical R&D and Benchmarking

Iridium Recovery and Refurbishment

Major players covered

Heraeus Precious Metals

TANAKA Precious Metals

Umicore

Johnson Matthey

BASF ECMS

Pajarito Powder

3M

Jiping New Energy

Shengshui Technology

American Elements

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 Water Electrolysis Iridium Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the PEM Water Electrolysis Iridium 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 PEM Water Electrolysis Iridium 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 PEM Water Electrolysis Iridium Catalyst.

Chapter 14 and 15, to describe PEM Water Electrolysis Iridium Catalyst sales channel, distributors, customers, research findings and conclusion.

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