

Global Low-Iridium-Loading 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 Low-Iridium-Loading Oxygen Evolution Catalyst market size was valued at US\$ 44.24 million in 2025 and is forecast to a readjusted size of US\$ 341 million by 2032 with a CAGR of 32.2% during review period.

Low-iridium loading oxygen evolution reaction (OER) catalysts are materials designed for the anode in proton exchange membrane (PEM) water electrolysis, utilizing minimal iridium content. These catalysts include supported iridium oxide, iridium-ruthenium mixed oxides, nanostructured iridium/iridium oxide, and other powder or coating precursors engineered with high surface area, conductive or acid-resistant supports, or thin-layer/single-layer structures to maximize iridium utilization. The estimated overall gross margin is approximately 43%.

The primary value of low-iridium OER catalysts lies not simply in replacing conventional iridium oxides, but in reducing iridium consumption per hydrogen production unit while maintaining stable acidic operation and high current density performance in PEM electrolyzers. Given the high cost and limited supply flexibility of iridium, anode OER catalysts are a key factor in cost reduction and scaling of PEM systems.

Currently, these catalysts are in the technical validation and early adoption stage. Buyers do not focus solely on unit price but evaluate iridium loading, activity, durability, electrode compatibility, and batch consistency. Low-iridium approaches include highly dispersed iridium oxides, iridium-ruthenium composites, supported iridium catalysts, and integrated designs with porous transport layers and electrode coatings. Competitive advantage is therefore determined by the combination of material system design,

electrode fabrication, and customer validation capabilities.

Future market growth is driven by the deployment of PEM electrolyzers in large-scale green hydrogen, industrial hydrogen, and renewable energy absorption scenarios. In the short term, low-iridium catalysts will not fully replace high-iridium ones but are expected to gain adoption first in cost-sensitive projects where equipment manufacturers have verified materials. Over the long term, as electrolyzer manufacturers demand lower iridium consumption, suppliers with high activity, high stability, and scalable supply capabilities will be better positioned to enter the core supply chain.

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

Global Low-Iridium-Loading 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 Low-Iridium-Loading 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 Low-Iridium-Loading 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 Low-Iridium-Loading 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 Low-Iridium-Loading 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 Heraeus Precious Metals, Johnson Matthey, Tanaka Kikinzoku, BASF ECMS, Umicore, 3M, Pajarito Powder, Furuya Metal, Ishifuku Metal Industry, Shanghai Tangfeng Energy, etc.

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

Market Segmentation

Low-Iridium-Loading 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

Supported Iridium Oxide

Unsupported Iridium Oxide

Iridium-Ruthenium Mixed Oxide

Metallic or Nanostructured Iridium

Other Low-Iridium Composites

Market segment by Iridium Content

Ultra-Low Iridium Content

Medium Iridium Content

High Iridium Content

Near-Pure Iridium Oxide

Other Iridium Content

Market segment by Support System

Conductive Oxide Support

Stable Oxide Support

Metal or Organic Nanostructured Support

Support-Free Structure

Other Support Systems

Market segment by Performance Positioning

Low Loading and Iridium Thrifiting

High Durability

High Mass Activity

Coating-Compatible

Other Performance Positioning

Market segment by Application

PEM Electrolyzer Stack Production

PEM MEA and CCM Manufacturing

Anode Electrode and PTE Coating

Catalyst Ink and Coating Development

Acidic OER R&D Testing

Other Oxygen Electrode Applications

Major players covered

Heraeus Precious Metals

Johnson Matthey

Tanaka Kikinzoku

BASF ECMS

Umicore

3M

Pajarito Powder

Furuya Metal

Ishifuku Metal Industry

Shanghai Tangfeng Energy

Ningbo Zhongke Cotrun

Jiping New Energy

Lopal

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 Low-Iridium-Loading Oxygen Evolution Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Low-Iridium-Loading 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 Low-Iridium-Loading 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 Low-Iridium-Loading Oxygen Evolution Catalyst.

Chapter 14 and 15, to describe Low-Iridium-Loading Oxygen Evolution Catalyst sales channel, distributors, customers, research findings and conclusion.

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