

Global Low-Iridium-Loading Oxygen Evolution Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Iridium-Loading Oxygen Evolution Catalyst market size is expected to reach \$ 341 million by 2032, rising at a market growth of 32.2% CAGR during the forecast period (2026-2032).

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 studies the global Low-Iridium-Loading Oxygen Evolution Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Iridium-Loading Oxygen Evolution Catalyst and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-Iridium-Loading Oxygen Evolution Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-Iridium-Loading Oxygen Evolution Catalyst total production and demand, 2021-2032, (kg)

Global Low-Iridium-Loading Oxygen Evolution Catalyst total production value, 2021-2032, (USD Million)

Global Low-Iridium-Loading Oxygen Evolution Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Low-Iridium-Loading Oxygen Evolution Catalyst consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Low-Iridium-Loading Oxygen Evolution Catalyst domestic production, consumption, key domestic manufacturers and share

Global Low-Iridium-Loading Oxygen Evolution Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Low-Iridium-Loading Oxygen Evolution Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Low-Iridium-Loading Oxygen Evolution Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Low-Iridium-Loading Oxygen Evolution

Catalyst market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low-Iridium-Loading Oxygen Evolution Catalyst market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, Segmentation by Type:

Supported Iridium Oxide

Unsupported Iridium Oxide

Iridium-Ruthenium Mixed Oxide

Metallic or Nanostructured Iridium

Other Low-Iridium Composites

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, Segmentation by Iridium Content:

Ultra-Low Iridium Content

Medium Iridium Content

High Iridium Content

Near-Pure Iridium Oxide

Other Iridium Content

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, Segmentation by Support System:

Conductive Oxide Support

Stable Oxide Support

Metal or Organic Nanostructured Support

Support-Free Structure

Other Support Systems

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, Segmentation by Performance Positioning:

Low Loading and Iridium Thrifiting

High Durability

High Mass Activity

Coating-Compatible

Other Performance Positioning

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market, Segmentation 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

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Low-Iridium-Loading Oxygen Evolution Catalyst market?
2. What is the demand of the global Low-Iridium-Loading Oxygen Evolution Catalyst market?
3. What is the year over year growth of the global Low-Iridium-Loading Oxygen Evolution Catalyst market?
4. What is the production and production value of the global Low-Iridium-Loading Oxygen Evolution Catalyst market?
5. Who are the key producers in the global Low-Iridium-Loading Oxygen Evolution Catalyst market?
6. What are the growth factors driving the market demand?

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