

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

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Abstracts

The global Oxygen Evolution Catalyst market size is expected to reach \$ 570 million by 2032, rising at a market growth of 27.3% CAGR during the forecast period (2026-2032).

Oxygen evolution reaction (OER) catalysts are functional catalytic materials used to promote the electrochemical oxygen evolution reaction. They are primarily deployed at the anode or positive electrode of water electrolysis hydrogen production systems, electrochemical CO₂ conversion systems, metal-air batteries, and regenerative fuel cells. Commercially, the dominant catalysts are iridium oxide, iridium black, and iridium-based mixed oxides used in acidic PEM electrolyzers, while alkaline and AEM systems are increasingly adopting non-precious-metal oxides or hydroxides based on nickel-iron, cobalt-iron, and related compositions. The product's overall gross margin is approximately 35%.

OER catalysts remain a small-volume, high-value, high-growth category of critical hydrogen-energy materials, with demand primarily driven by the scale-up of PEM and AEM water electrolysis systems. As electrolyzer deployment accelerates, catalyst performance increasingly determines stack efficiency, precious metal consumption, operating lifetime, and overall hydrogen production economics.

The competitive landscape is led by precious metal and electrocatalyst companies. European, Japanese, and U.S. suppliers maintain advantages in iridium-based catalyst technology, precious metal recycling, and customer qualification, while Chinese companies are rapidly expanding through localization, fast sampling, and integrated membrane-electrode assembly (MEA) supply capabilities. For customers, the most important considerations are not simply catalyst price, but durability at low iridium loading, hydrogen-in-oxygen control, batch-to-batch consistency, coating processability,

and compatibility with large-scale MEA manufacturing.

Over the next six years, the market is expected to maintain strong growth potential, although expansion will be influenced by the pace of green hydrogen project deployment and constraints in global iridium supply. Acidic PEM systems will continue to rely on iridium-based catalysts, with technological development focused on ultra-low iridium loading, supported IrOx catalysts, iridium-ruthenium mixed oxides, and closed-loop precious metal recycling. Meanwhile, AEM and alkaline systems will drive growth in non-precious-metal OER catalysts, although most of these technologies remain in demonstration, pilot-scale deployment, and customer qualification stages in the near term.

This report studies the global Oxygen Evolution Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 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 Oxygen Evolution Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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, Johnson Matthey, Umicore, TANAKA, 3M, BASF ECMS, Pajarito Powder, Jiping New Energy, Anhui Contango New Energy, Ames Goldsmith, 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 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 Oxygen Evolution Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oxygen Evolution Catalyst Market, Segmentation by Type:

Acidic OER Catalyst

Alkaline OER Catalyst

Neutral OER Catalyst

High-Temperature OER Catalyst

Global Oxygen Evolution Catalyst Market, Segmentation by Active Component:

Iridium Oxide Catalyst

Iridium Black Catalyst

Ruthenium Oxide Catalyst

Iridium?Ruthenium Mixed Oxide Catalyst

Non-PGM Transition Metal Catalyst

Global Oxygen Evolution Catalyst Market, Segmentation by Catalyst Structure:

Unsupported Powder Catalyst

Supported Catalyst

Catalyst-Coated Membrane

Catalyst-Coated Porous Transport Layer

Electrodeposited Catalyst Layer

Global Oxygen Evolution Catalyst Market, Segmentation by Delivery Form:

Catalyst Powder

Catalyst Ink

Coated Electrode

Catalyst-Coated Membrane

Custom Catalyst Formulation

Global Oxygen Evolution Catalyst Market, Segmentation by Application:

PEM Water Electrolysis

AEM Water Electrolysis

Alkaline Water Electrolysis

Electrochemical CO₂ Conversion

Metal-Air Battery and Regenerative Fuel Cell

Academic and Industrial Electrocatalysis Testing

Companies Profiled:

Heraeus

Johnson Matthey

Umicore

TANAKA

3M

BASF ECMS

Pajarito Powder

Jiping New Energy

Anhui Contango New Energy

Ames Goldsmith

Key Questions Answered:

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

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