

Global 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 Oxygen Evolution Catalyst market size was valued at US\$ 99 million in 2025 and is forecast to a readjusted size of US\$ 570 million by 2032 with a CAGR of 27.3% during review period.

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

Global 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 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 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 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 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, 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.

Market Segmentation

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

Acidic OER Catalyst

Alkaline OER Catalyst

Neutral OER Catalyst

High-Temperature OER Catalyst

Market segment by Active Component

Iridium Oxide Catalyst

Iridium Black Catalyst

Ruthenium Oxide Catalyst

Iridium?Ruthenium Mixed Oxide Catalyst

Non-PGM Transition Metal Catalyst

Market segment by Catalyst Structure

Unsupported Powder Catalyst

Supported Catalyst

Catalyst-Coated Membrane

Catalyst-Coated Porous Transport Layer

Electrodeposited Catalyst Layer

Market segment by Delivery Form

Catalyst Powder

Catalyst Ink

Coated Electrode

Catalyst-Coated Membrane

Custom Catalyst Formulation

Market segment 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

Major players covered

Heraeus

Johnson Matthey

Umicore

TANAKA

3M

BASF ECMS

Pajarito Powder

Jiping New Energy

Anhui Contango New Energy

Ames Goldsmith

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 Oxygen Evolution Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 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 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 Oxygen Evolution Catalyst.

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

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