

Global Anti Reverse 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 Anti Reverse Catalyst market size was valued at US\$ 76.25 million in 2025 and is forecast to a readjusted size of US\$ 106 million by 2032 with a CAGR of 4.4% during review period.

Anti-reverse polarity catalysts are special catalysts specifically designed for the anode of proton exchange membrane fuel cells (PEMFCs). They aim to address the problems of carbon support corrosion and membrane electrode failure caused by elevated anode potential during startup, shutdown, or fuel starvation. These catalysts typically use non-carbon materials as carriers and are compounded with high-performance oxygen evolution reaction (OER) catalysts, possessing high conductivity, excellent electrochemical oxidation resistance, and extremely high resistance to reverse polarity.

The upstream supply chain mainly involves precious metal precursors (such as iridium chloride and chloroplatinic acid) and high-performance carrier materials. Global sales are projected to be approximately 570 tons in 2025, with an average market price of approximately US\$130 per kilogram. The industry's gross profit margin is in the range of 15%-30%.

The anti-reverse polarity catalyst industry, as a crucial link in the fuel cell industry chain, has development prospects closely tied to the commercialization process of fuel cells. Fuel cells are prone to reverse polarity under extreme operating conditions such as startup, load changes, or uneven fuel supply. This can lead to irreversible corrosion and degradation of the battery's core components, severely damaging its lifespan and reliability. Therefore, the development and application of efficient anti-reverse polarity catalysts are indispensable technical guarantees for improving fuel cell durability and

promoting their large-scale commercialization.

The most critical limiting factors are material costs and the scarcity of certain elements. Scarce materials such as iridium and platinum will become obstacles to the cost-effectiveness and scalability of electrolyzers, as current Ir/Pt production is insufficient to support future large-scale manufacturing demands.

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

Global Anti Reverse Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Anti Reverse Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Anti Reverse Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Anti Reverse 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 Anti Reverse 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 Tanaka, Heraeus, Johnson Matthey, Umicore, BASF, Hydrogine Power Technology, Jiping New Energy Technology, Taiji Power Technology, etc.

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

Market Segmentation

Anti Reverse 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

Ir-Based

Ru-Based

Others

Market segment by Support

Carbon Support

Non-Carbon Support

Market segment by Application

Fuel Cell

Other

Major players covered

Tanaka

Heraeus

Johnson Matthey

Umicore

BASF

Hydrogine Power Technology

Jiping New Energy Technology

Taiji Power Technology

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 Anti Reverse Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Anti Reverse 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 Anti Reverse 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 Anti Reverse Catalyst.

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

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