

Global Anti Reverse Catalyst Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G92136ED1DBBEN.html>

Date: February 2026

Pages: 110

Price: US\$ 4,480.00 (Single User License)

ID: G92136ED1DBBEN

Abstracts

The global Anti Reverse Catalyst market size is expected to reach \$ 106 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

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 studies the global Anti Reverse Catalyst production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Anti Reverse Catalyst total production and demand, 2021-2032, (Tons)

Global Anti Reverse Catalyst total production value, 2021-2032, (USD Million)

Global Anti Reverse Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Anti Reverse Catalyst consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Anti Reverse Catalyst domestic production, consumption, key domestic manufacturers and share

Global Anti Reverse Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Anti Reverse Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Anti Reverse Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Anti Reverse 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Anti Reverse Catalyst market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Anti Reverse Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Anti Reverse Catalyst Market, Segmentation by Type:

Ir-Based

Ru-Based

Others

Global Anti Reverse Catalyst Market, Segmentation by Support:

Carbon Support

Non-Carbon Support

Global Anti Reverse Catalyst Market, Segmentation by Application:

Fuel Cell

Other

Companies Profiled:

Tanaka

Heraeus

Johnson Matthey

Umicore

BASF

Hydrogine Power Technology

Jiping New Energy Technology

Taiji Power Technology

Key Questions Answered:

1. How big is the global Anti Reverse Catalyst market?
2. What is the demand of the global Anti Reverse Catalyst market?
3. What is the year over year growth of the global Anti Reverse Catalyst market?
4. What is the production and production value of the global Anti Reverse Catalyst market?

5. Who are the key producers in the global Anti Reverse Catalyst market?
6. What are the growth factors driving the market demand?

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