

Global Anti Reverse Catalyst Market Growth 2026-2032

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Abstracts

The global Anti Reverse Catalyst market size is predicted to grow from US\$ 72.49 million in 2025 to US\$ 102 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Anti Reverse Catalyst Industry Forecast” looks at past sales and reviews total world Anti Reverse Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected Anti Reverse Catalyst sales for 2026 through 2032. With Anti Reverse Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Anti Reverse Catalyst industry.

This Insight Report provides a comprehensive analysis of the global Anti Reverse Catalyst landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Anti Reverse Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Anti Reverse Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Anti Reverse Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Anti Reverse Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of Anti Reverse Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ir-Based

Ru-Based

Others

Segmentation by Support:

Carbon Support

Non-Carbon Support

Segmentation by Application:

Fuel Cell

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Tanaka

Heraeus

Johnson Matthey

Umicore

BASF

Hydrogine Power Technology

Jiping New Energy Technology

Taiji Power Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Anti Reverse Catalyst market?

What factors are driving Anti Reverse Catalyst market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Anti Reverse Catalyst market opportunities vary by end market size?

How does Anti Reverse Catalyst break out by Type, by Application?

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