

# Global Low Platinum Catalyst Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBE18B253EF0EN.html>

Date: June 2026

Pages: 204

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

ID: GBE18B253EF0EN

## Abstracts

The global Low Platinum Catalyst market size is expected to reach \$ 545 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Low-platinum catalysts refer to Pt-based catalysts with low platinum content per unit power or per unit catalyst in fuel cells, while maintaining high catalytic activity and long-term durability. They are primarily used in hydrogen fuel cells (such as PEMFC cathodes). By optimizing Pt particle size, loading, support structure, and surface treatment, low precious metal usage is achieved without significantly reducing performance. Low-platinum catalysts can employ Pt/C, Pt Alloy/C, or core-shell Pt technologies, representing a core technological direction for driving fuel cell commercialization and reducing system costs. In 2025, global shipments of low-platinum catalysts were approximately 5.6 tons, with a unit price of approximately US\$36,400/kg and a gross profit margin of approximately 4.86%-15.3%.

The rapid development of new energy vehicles, stationary power generation, and portable hydrogen energy devices is driving the continued growth in demand for high-performance low-platinum catalysts. Low-platinum catalysts can significantly reduce the amount of precious metals used in PEMFC cathodes while improving power density and durability, representing a crucial breakthrough for cost control and commercialization. Policy support, carbon neutrality goals, and fuel cell vehicle subsidies continue to drive market expansion.

Platinum resources are limited and expensive, and the preparation of low-platinum catalysts requires sophisticated technology, necessitating assurance of Pt particle dispersion, uniform loading, and long-term stability. The research and development of non-precious metal catalysts may also create competitive pressure in the future.

Automotive fuel cells remain the primary application for low-platinum catalysts, holding a dominant market share; stationary power generation, backup power, and portable hydrogen energy devices represent a stable growth market. Future trends indicate that low-Pt high-MA catalysts, Pt Alloy/C, and core-shell Pt catalysts will gradually replace traditional high-Pt products, making technological upgrades the core of market competition.

This report studies the global Low Platinum Catalyst production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Low Platinum Catalyst total production and demand, 2021-2032, (Tons)

Global Low Platinum Catalyst total production value, 2021-2032, (USD Million)

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

Global Low Platinum Catalyst consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low Platinum Catalyst domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Low Platinum 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 Johnson Matthey, Evonik, BASF, Heraeus, Vineeth Chemicals, TANAKA, Umicore, Heesung Catalysts, Pajarito Powder, Nisshinbo Holdings, 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 Low Platinum 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 Low Platinum Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Platinum Catalyst Market, Segmentation by Type:

Pt-based Alloy Catalyst

Pt-based Core Shell Catalysts

Pt Single Atom Catalyst

Global Low Platinum Catalyst Market, Segmentation by Platinum Content:

20–40?wt.%

40–60?wt.%

60–70?wt.%

Others

Global Low Platinum Catalyst Market, Segmentation by ECSA:

ECSA 55–70 m<sup>2</sup>/gPt

ECSA 70–95 m<sup>2</sup>/gPt

ECSA 95–120 m<sup>2</sup>/gPt

Others

Global Low Platinum Catalyst Market, Segmentation by Application:

Automotive Fuel Cells

Stationary Power

Portable Hydrogen Devices

DMFC

Companies Profiled:

Johnson Matthey

Evonik

BASF

Heraeus

Vineeth Chemicals

TANAKA

Umicore

Heesung Catalysts

Pajarito Powder

Nisshinbo Holdings

TsingHydrogen

Ningbo Zhongke Cotrun New Energy Science Technology Co., Ltd.

Jiangsu Lopal Tech. Co., Ltd.

Anhui Cuishui New Energy Technology Co., Ltd.

Juna Technologies

Shanghai Jiping New Energy Technology Co., Ltd.

Guangdong Zhongdian Energy Limited Company

Wuhan Himalaya Optoelectronic Technology Co., Ltd.

SPIC Hydrogen Energy Technology Development Co., Ltd.

Sino-Platinum Metals Co., Ltd.

HZJ Hydrogens

SINOTECH Company Limited

Nanjing Dongyan Hydrogen Energy Technology Co., Ltd.

SuZhou Hydrogine Power Technology Co.,Ltd

GEM Co., Ltd.

Shanghai Tangfeng Energy Technology Co., Ltd.

Shaanxi Rock New Material Co., Ltd.

Kaili Catalyst & New Materials Co.,Ltd

Hangzhou Kaida Metal Catalyst & Compounds Co., Ltd.

Jiangsu Yanchang Sunlaite New Energy Co., Ltd.

Zhejiang Gaocheng Green Energy Technology Co., Ltd.

Canan Material Co Ltd

UIV Chem

Guangzhou Siyou New Material Technology Co., Ltd.

Shaanxi Kaida Chemical Engineering Co., Ltd.

#### Key Questions Answered:

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

6. What are the growth factors driving the market demand?

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