

# Global PEM Hydrogen Production Catalyst Market Growth 2026-2032

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## Abstracts

The global PEM Hydrogen Production Catalyst market size is predicted to grow from US\$ 127 million in 2025 to US\$ 231 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

In 2025, global PEM Hydrogen Production Catalyst production reached approximately 5.16 tons with an average global market price of around k US\$25 per kg. Single-line annual production capacity averages 500 kg with a gross margin of approximately 6-8%. The upstream of the proton exchange membrane water electrolysis hydrogen production catalyst industry chain mainly focuses on the R&D and manufacturing of precious metal materials (particularly scarce metals like iridium and platinum) and composite membrane electrode assemblies. In terms of downstream applications, the energy sector (green hydrogen production) accounts for approximately 50% of consumption, the chemical industry (synthetic ammonia, refining, etc.) for about 30%, transportation fuel cell vehicles for around 15%, and other applications for roughly 5%. Current demand is primarily driven by the global energy transition and the scaling-up of green hydrogen projects, with an urgent need for technological breakthroughs in low-iridium/non-precious metal catalysts and high-stability membrane electrodes. The main business opportunities lie in the localization of high-performance catalysts to replace imports, iridium resource recycling technologies, and integrated solutions for electrolyzer systems coupled with renewable energy sources.

The PEM Hydrogen Production Catalyst serves to facilitate the critical electrochemical reaction of water splitting within a proton exchange membrane (PEM) electrolyzer. Operating in a highly acidic environment, it ensures both high activity for oxygen evolution at the anode—often relying on iridium-based materials for durability—and efficient hydrogen evolution at the cathode, typically using platinum or platinum-group

metals. Its design directly addresses the need for rapid response to intermittent renewable power inputs, offering superior electrical efficiency, compact system integration, and sustained performance under dynamic operating conditions. Ultimately, this catalyst enables the production of high-purity hydrogen with minimal energy loss, forming the core of scalable, grid-responsive green hydrogen systems.

The future of PEM Hydrogen Production Catalysts will focus on two core directions: 'reducing dependence on precious metals' and 'innovating material systems.' On one hand, the industry is making comprehensive efforts to address the long-term stability issues of low-iridium and non-precious metal catalysts in acidic environments. Through approaches such as single-atom dispersion and composite transition metal compounds, the goal is to break free from resource constraints. On the other hand, catalyst design increasingly emphasizes overall synergy with membrane electrode assemblies. For instance, the use of porous supports to fabricate ultra-thin catalyst layers and the regulation of proton transport at three-phase interfaces enhance current density and adaptability to the fluctuating conditions of renewable energy. From a manufacturing perspective, the focus of large-scale production has shifted toward continuous coating processes and slurry formulation optimization to ensure performance consistency and cost control. Behind these advancements lies the transformation of catalysts from single-function materials into 'electrochemical engines' that integrate activity, conductivity, mechanical stability, and dynamic responsiveness. The ultimate goal is not only to reduce the electricity consumption per kilogram of hydrogen produced but also to develop hydrogen production systems capable of flexibly integrating wind and solar power, thereby driving green hydrogen from demonstration projects toward industrialization.

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

This Insight Report provides a comprehensive analysis of the global PEM Hydrogen Production 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 PEM Hydrogen Production Catalyst portfolios and capabilities, market entry

strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PEM Hydrogen Production Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PEM Hydrogen Production Catalyst and breaks down the forecast by Reaction Function, 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 PEM Hydrogen Production Catalyst.

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

Segmentation by Reaction Function:

OER Catalyst

HER Catalyst

OER & HER

Segmentation by Precious Metal Type:

Iridium-based Catalyst

Platinum-based Catalyst

Rhodium-based Catalyst

Ruthenium-based Catalyst

Others

Segmentation by Structure:

Porous Catalyst

Nanoparticle Catalyst

Segmentation by Application:

Energy

Chemicals

Automotive

Others

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.

Johnson Matthey

Tanaka

Heraeus

Umicore

Clariant

Shanghai Jiping New Energy Technology

Ningbo Zhongke Cotrun New Energy Science & Technology

Hangzhou Kaida Metal Catalyst and Compounds

SuZhou Hydrogine Power Technology

Zhejiang Fumei Metal

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global PEM Hydrogen Production Catalyst market?

What factors are driving PEM Hydrogen Production Catalyst market growth, globally and by region?

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

How do PEM Hydrogen Production Catalyst market opportunities vary by end market size?

How does PEM Hydrogen Production Catalyst break out by Reaction Function, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global PEM Hydrogen Production Catalyst Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for PEM Hydrogen Production Catalyst by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for PEM Hydrogen Production Catalyst by Country/Region, 2021, 2025 & 2032
- 2.2 PEM Hydrogen Production Catalyst Segment by Reaction Function
  - 2.2.1 OER Catalyst
  - 2.2.2 HER Catalyst
  - 2.2.3 OER & HER
  - 2.2.4 PEM Hydrogen Production Catalyst Sales by Reaction Function
    - 2.2.4.1 Global PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)
    - 2.2.4.2 Global PEM Hydrogen Production Catalyst Revenue and Market Share by Reaction Function (2021-2026)
    - 2.2.4.3 Global PEM Hydrogen Production Catalyst Sale Price by Reaction Function (2021-2026)
- 2.3 PEM Hydrogen Production Catalyst Segment by Precious Metal Type
  - 2.3.1 Iridium-based Catalyst
  - 2.3.2 Platinum-based Catalyst
  - 2.3.3 Rhodium-based Catalyst
  - 2.3.4 Ruthenium-based Catalyst
  - 2.3.5 Others
  - 2.3.6 PEM Hydrogen Production Catalyst Sales by Precious Metal Type

2.3.6.1 Global PEM Hydrogen Production Catalyst Sales Market Share by Precious Metal Type (2021-2026)

2.3.6.2 Global PEM Hydrogen Production Catalyst Revenue and Market Share by Precious Metal Type (2021-2026)

2.3.6.3 Global PEM Hydrogen Production Catalyst Sale Price by Precious Metal Type (2021-2026)

2.4 PEM Hydrogen Production Catalyst Segment by Structure

2.4.1 Porous Catalyst

2.4.2 Nanoparticle Catalyst

2.4.3 PEM Hydrogen Production Catalyst Sales by Structure

2.4.3.1 Global PEM Hydrogen Production Catalyst Sales Market Share by Structure (2021-2026)

2.4.3.2 Global PEM Hydrogen Production Catalyst Revenue and Market Share by Structure (2021-2026)

2.4.3.3 Global PEM Hydrogen Production Catalyst Sale Price by Structure (2021-2026)

2.5 PEM Hydrogen Production Catalyst Segment by Application

2.5.1 Energy

2.5.2 Chemicals

2.5.3 Automotive

2.5.4 Others

2.5.5 PEM Hydrogen Production Catalyst Sales by Application

2.5.5.1 Global PEM Hydrogen Production Catalyst Sale Market Share by Application (2021-2026)

2.5.5.2 Global PEM Hydrogen Production Catalyst Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global PEM Hydrogen Production Catalyst Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global PEM Hydrogen Production Catalyst Breakdown Data by Company

3.1.1 Global PEM Hydrogen Production Catalyst Annual Sales by Company (2021-2026)

3.1.2 Global PEM Hydrogen Production Catalyst Sales Market Share by Company (2021-2026)

3.2 Global PEM Hydrogen Production Catalyst Annual Revenue by Company (2021-2026)

3.2.1 Global PEM Hydrogen Production Catalyst Revenue by Company (2021-2026)

- 3.2.2 Global PEM Hydrogen Production Catalyst Revenue Market Share by Company (2021-2026)
- 3.3 Global PEM Hydrogen Production Catalyst Sale Price by Company
- 3.4 Key Manufacturers PEM Hydrogen Production Catalyst Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers PEM Hydrogen Production Catalyst Product Location Distribution
  - 3.4.2 Players PEM Hydrogen Production Catalyst Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR PEM HYDROGEN PRODUCTION CATALYST BY GEOGRAPHIC REGION**

- 4.1 World Historic PEM Hydrogen Production Catalyst Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global PEM Hydrogen Production Catalyst Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global PEM Hydrogen Production Catalyst Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic PEM Hydrogen Production Catalyst Market Size by Country/Region (2021-2026)
  - 4.2.1 Global PEM Hydrogen Production Catalyst Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global PEM Hydrogen Production Catalyst Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas PEM Hydrogen Production Catalyst Sales Growth
- 4.4 APAC PEM Hydrogen Production Catalyst Sales Growth
- 4.5 Europe PEM Hydrogen Production Catalyst Sales Growth
- 4.6 Middle East & Africa PEM Hydrogen Production Catalyst Sales Growth

## **5 AMERICAS**

- 5.1 Americas PEM Hydrogen Production Catalyst Sales by Country
  - 5.1.1 Americas PEM Hydrogen Production Catalyst Sales by Country (2021-2026)
  - 5.1.2 Americas PEM Hydrogen Production Catalyst Revenue by Country (2021-2026)

5.2 Americas PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026)

5.3 Americas PEM Hydrogen Production Catalyst Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC PEM Hydrogen Production Catalyst Sales by Region

6.1.1 APAC PEM Hydrogen Production Catalyst Sales by Region (2021-2026)

6.1.2 APAC PEM Hydrogen Production Catalyst Revenue by Region (2021-2026)

6.2 APAC PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026)

6.3 APAC PEM Hydrogen Production Catalyst Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe PEM Hydrogen Production Catalyst by Country

7.1.1 Europe PEM Hydrogen Production Catalyst Sales by Country (2021-2026)

7.1.2 Europe PEM Hydrogen Production Catalyst Revenue by Country (2021-2026)

7.2 Europe PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026)

7.3 Europe PEM Hydrogen Production Catalyst Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

## 8.1 Middle East & Africa PEM Hydrogen Production Catalyst by Country

8.1.1 Middle East & Africa PEM Hydrogen Production Catalyst Sales by Country (2021-2026)

8.1.2 Middle East & Africa PEM Hydrogen Production Catalyst Revenue by Country (2021-2026)

8.2 Middle East & Africa PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026)

8.3 Middle East & Africa PEM Hydrogen Production Catalyst Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of PEM Hydrogen Production Catalyst

10.3 Manufacturing Process Analysis of PEM Hydrogen Production Catalyst

10.4 Industry Chain Structure of PEM Hydrogen Production Catalyst

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 PEM Hydrogen Production Catalyst Distributors

11.3 PEM Hydrogen Production Catalyst Customer

## **12 WORLD FORECAST REVIEW FOR PEM HYDROGEN PRODUCTION CATALYST BY GEOGRAPHIC REGION**

- 12.1 Global PEM Hydrogen Production Catalyst Market Size Forecast by Region
  - 12.1.1 Global PEM Hydrogen Production Catalyst Forecast by Region (2027-2032)
  - 12.1.2 Global PEM Hydrogen Production Catalyst Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global PEM Hydrogen Production Catalyst Forecast by Reaction Function (2027-2032)
- 12.7 Global PEM Hydrogen Production Catalyst Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Johnson Matthey
  - 13.1.1 Johnson Matthey Company Information
  - 13.1.2 Johnson Matthey PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.1.3 Johnson Matthey PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 Johnson Matthey Main Business Overview
  - 13.1.5 Johnson Matthey Latest Developments
- 13.2 Tanaka
  - 13.2.1 Tanaka Company Information
  - 13.2.2 Tanaka PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.2.3 Tanaka PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Tanaka Main Business Overview
  - 13.2.5 Tanaka Latest Developments
- 13.3 Heraeus
  - 13.3.1 Heraeus Company Information
  - 13.3.2 Heraeus PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.3.3 Heraeus PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 Heraeus Main Business Overview
  - 13.3.5 Heraeus Latest Developments
- 13.4 Umicore

- 13.4.1 Umicore Company Information
- 13.4.2 Umicore PEM Hydrogen Production Catalyst Product Portfolios and Specifications
- 13.4.3 Umicore PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Umicore Main Business Overview
- 13.4.5 Umicore Latest Developments
- 13.5 Clariant
  - 13.5.1 Clariant Company Information
  - 13.5.2 Clariant PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.5.3 Clariant PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Clariant Main Business Overview
  - 13.5.5 Clariant Latest Developments
- 13.6 Shanghai Jiping New Energy Technology
  - 13.6.1 Shanghai Jiping New Energy Technology Company Information
  - 13.6.2 Shanghai Jiping New Energy Technology PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.6.3 Shanghai Jiping New Energy Technology PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 Shanghai Jiping New Energy Technology Main Business Overview
  - 13.6.5 Shanghai Jiping New Energy Technology Latest Developments
- 13.7 Ningbo Zhongke Cotrun New Energy Science & Technology
  - 13.7.1 Ningbo Zhongke Cotrun New Energy Science & Technology Company Information
  - 13.7.2 Ningbo Zhongke Cotrun New Energy Science & Technology PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.7.3 Ningbo Zhongke Cotrun New Energy Science & Technology PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Ningbo Zhongke Cotrun New Energy Science & Technology Main Business Overview
  - 13.7.5 Ningbo Zhongke Cotrun New Energy Science & Technology Latest Developments
- 13.8 Hangzhou Kaida Metal Catalyst and Compounds
  - 13.8.1 Hangzhou Kaida Metal Catalyst and Compounds Company Information
  - 13.8.2 Hangzhou Kaida Metal Catalyst and Compounds PEM Hydrogen Production Catalyst Product Portfolios and Specifications
  - 13.8.3 Hangzhou Kaida Metal Catalyst and Compounds PEM Hydrogen Production

Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Hangzhou Kaida Metal Catalyst and Compounds Main Business Overview

13.8.5 Hangzhou Kaida Metal Catalyst and Compounds Latest Developments

13.9 SuZhou Hydrogine Power Technology

13.9.1 SuZhou Hydrogine Power Technology Company Information

13.9.2 SuZhou Hydrogine Power Technology PEM Hydrogen Production Catalyst

Product Portfolios and Specifications

13.9.3 SuZhou Hydrogine Power Technology PEM Hydrogen Production Catalyst

Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 SuZhou Hydrogine Power Technology Main Business Overview

13.9.5 SuZhou Hydrogine Power Technology Latest Developments

13.10 Zhejiang Fumei Metal

13.10.1 Zhejiang Fumei Metal Company Information

13.10.2 Zhejiang Fumei Metal PEM Hydrogen Production Catalyst Product Portfolios and Specifications

13.10.3 Zhejiang Fumei Metal PEM Hydrogen Production Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Zhejiang Fumei Metal Main Business Overview

13.10.5 Zhejiang Fumei Metal Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. PEM Hydrogen Production Catalyst Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. PEM Hydrogen Production Catalyst Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of OER Catalyst
- Table 4. Major Players of HER Catalyst
- Table 5. Major Players of OER & HER
- Table 6. Global PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026) & (Tons)
- Table 7. Global PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)
- Table 8. Global PEM Hydrogen Production Catalyst Revenue by Reaction Function (2021-2026) & (\$ million)
- Table 9. Global PEM Hydrogen Production Catalyst Revenue Market Share by Reaction Function (2021-2026)
- Table 10. Global PEM Hydrogen Production Catalyst Sale Price by Reaction Function (2021-2026) & (K US\$/kg)
- Table 11. Major Players of Iridium-based Catalyst
- Table 12. Major Players of Platinum-based Catalyst
- Table 13. Major Players of Rhodium-based Catalyst
- Table 14. Major Players of Ruthenium-based Catalyst
- Table 15. Major Players of Others
- Table 16. Global PEM Hydrogen Production Catalyst Sales by Precious Metal Type (2021-2026) & (Tons)
- Table 17. Global PEM Hydrogen Production Catalyst Sales Market Share by Precious Metal Type (2021-2026)
- Table 18. Global PEM Hydrogen Production Catalyst Revenue by Precious Metal Type (2021-2026) & (\$ million)
- Table 19. Global PEM Hydrogen Production Catalyst Revenue Market Share by Precious Metal Type (2021-2026)
- Table 20. Global PEM Hydrogen Production Catalyst Sale Price by Precious Metal Type (2021-2026) & (K US\$/kg)
- Table 21. Major Players of Porous Catalyst
- Table 22. Major Players of Nanoparticle Catalyst
- Table 23. Global PEM Hydrogen Production Catalyst Sales by Structure (2021-2026) &

(Tons)

Table 24. Global PEM Hydrogen Production Catalyst Sales Market Share by Structure (2021-2026)

Table 25. Global PEM Hydrogen Production Catalyst Revenue by Structure (2021-2026) & (\$ million)

Table 26. Global PEM Hydrogen Production Catalyst Revenue Market Share by Structure (2021-2026)

Table 27. Global PEM Hydrogen Production Catalyst Sale Price by Structure (2021-2026) & (K US\$/kg)

Table 28. Global PEM Hydrogen Production Catalyst Sale by Application (2021-2026) & (Tons)

Table 29. Global PEM Hydrogen Production Catalyst Sale Market Share by Application (2021-2026)

Table 30. Global PEM Hydrogen Production Catalyst Revenue by Application (2021-2026) & (\$ million)

Table 31. Global PEM Hydrogen Production Catalyst Revenue Market Share by Application (2021-2026)

Table 32. Global PEM Hydrogen Production Catalyst Sale Price by Application (2021-2026) & (K US\$/kg)

Table 33. Global PEM Hydrogen Production Catalyst Sales by Company (2021-2026) & (Tons)

Table 34. Global PEM Hydrogen Production Catalyst Sales Market Share by Company (2021-2026)

Table 35. Global PEM Hydrogen Production Catalyst Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global PEM Hydrogen Production Catalyst Revenue Market Share by Company (2021-2026)

Table 37. Global PEM Hydrogen Production Catalyst Sale Price by Company (2021-2026) & (K US\$/kg)

Table 38. Key Manufacturers PEM Hydrogen Production Catalyst Producing Area Distribution and Sales Area

Table 39. Players PEM Hydrogen Production Catalyst Products Offered

Table 40. PEM Hydrogen Production Catalyst Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global PEM Hydrogen Production Catalyst Sales by Geographic Region (2021-2026) & (Tons)

Table 44. Global PEM Hydrogen Production Catalyst Sales Market Share Geographic

## Region (2021-2026)

Table 45. Global PEM Hydrogen Production Catalyst Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global PEM Hydrogen Production Catalyst Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global PEM Hydrogen Production Catalyst Sales by Country/Region (2021-2026) & (Tons)

Table 48. Global PEM Hydrogen Production Catalyst Sales Market Share by Country/Region (2021-2026)

Table 49. Global PEM Hydrogen Production Catalyst Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global PEM Hydrogen Production Catalyst Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas PEM Hydrogen Production Catalyst Sales by Country (2021-2026) & (Tons)

Table 52. Americas PEM Hydrogen Production Catalyst Sales Market Share by Country (2021-2026)

Table 53. Americas PEM Hydrogen Production Catalyst Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026) & (Tons)

Table 55. Americas PEM Hydrogen Production Catalyst Sales by Application (2021-2026) & (Tons)

Table 56. APAC PEM Hydrogen Production Catalyst Sales by Region (2021-2026) & (Tons)

Table 57. APAC PEM Hydrogen Production Catalyst Sales Market Share by Region (2021-2026)

Table 58. APAC PEM Hydrogen Production Catalyst Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026) & (Tons)

Table 60. APAC PEM Hydrogen Production Catalyst Sales by Application (2021-2026) & (Tons)

Table 61. Europe PEM Hydrogen Production Catalyst Sales by Country (2021-2026) & (Tons)

Table 62. Europe PEM Hydrogen Production Catalyst Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026) & (Tons)

Table 64. Europe PEM Hydrogen Production Catalyst Sales by Application (2021-2026) & (Tons)

Table 65. Middle East & Africa PEM Hydrogen Production Catalyst Sales by Country (2021-2026) & (Tons)

Table 66. Middle East & Africa PEM Hydrogen Production Catalyst Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa PEM Hydrogen Production Catalyst Sales by Reaction Function (2021-2026) & (Tons)

Table 68. Middle East & Africa PEM Hydrogen Production Catalyst Sales by Application (2021-2026) & (Tons)

Table 69. Key Market Drivers & Growth Opportunities of PEM Hydrogen Production Catalyst

Table 70. Key Market Challenges & Risks of PEM Hydrogen Production Catalyst

Table 71. Key Industry Trends of PEM Hydrogen Production Catalyst

Table 72. PEM Hydrogen Production Catalyst Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. PEM Hydrogen Production Catalyst Distributors List

Table 75. PEM Hydrogen Production Catalyst Customer List

Table 76. Global PEM Hydrogen Production Catalyst Sales Forecast by Region (2027-2032) & (Tons)

Table 77. Global PEM Hydrogen Production Catalyst Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas PEM Hydrogen Production Catalyst Sales Forecast by Country (2027-2032) & (Tons)

Table 79. Americas PEM Hydrogen Production Catalyst Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC PEM Hydrogen Production Catalyst Sales Forecast by Region (2027-2032) & (Tons)

Table 81. APAC PEM Hydrogen Production Catalyst Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe PEM Hydrogen Production Catalyst Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Europe PEM Hydrogen Production Catalyst Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa PEM Hydrogen Production Catalyst Sales Forecast by Country (2027-2032) & (Tons)

Table 85. Middle East & Africa PEM Hydrogen Production Catalyst Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global PEM Hydrogen Production Catalyst Sales Forecast by Reaction

Function (2027-2032) & (Tons)

Table 87. Global PEM Hydrogen Production Catalyst Revenue Forecast by Reaction Function (2027-2032) & (\$ millions)

Table 88. Global PEM Hydrogen Production Catalyst Sales Forecast by Application (2027-2032) & (Tons)

Table 89. Global PEM Hydrogen Production Catalyst Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Johnson Matthey Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 91. Johnson Matthey PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 92. Johnson Matthey PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 93. Johnson Matthey Main Business

Table 94. Johnson Matthey Latest Developments

Table 95. Tanaka Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 96. Tanaka PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 97. Tanaka PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 98. Tanaka Main Business

Table 99. Tanaka Latest Developments

Table 100. Heraeus Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 101. Heraeus PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 102. Heraeus PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 103. Heraeus Main Business

Table 104. Heraeus Latest Developments

Table 105. Umicore Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 106. Umicore PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 107. Umicore PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 108. Umicore Main Business

Table 109. Umicore Latest Developments

Table 110. Clariant Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 111. Clariant PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 112. Clariant PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 113. Clariant Main Business

Table 114. Clariant Latest Developments

Table 115. Shanghai Jiping New Energy Technology Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 116. Shanghai Jiping New Energy Technology PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 117. Shanghai Jiping New Energy Technology PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 118. Shanghai Jiping New Energy Technology Main Business

Table 119. Shanghai Jiping New Energy Technology Latest Developments

Table 120. Ningbo Zhongke Cotrun New Energy Science & Technology Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 121. Ningbo Zhongke Cotrun New Energy Science & Technology PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 122. Ningbo Zhongke Cotrun New Energy Science & Technology PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 123. Ningbo Zhongke Cotrun New Energy Science & Technology Main Business

Table 124. Ningbo Zhongke Cotrun New Energy Science & Technology Latest Developments

Table 125. Hangzhou Kaida Metal Catalyst and Compounds Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 126. Hangzhou Kaida Metal Catalyst and Compounds PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 127. Hangzhou Kaida Metal Catalyst and Compounds PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 128. Hangzhou Kaida Metal Catalyst and Compounds Main Business

Table 129. Hangzhou Kaida Metal Catalyst and Compounds Latest Developments

Table 130. SuZhou Hydrogine Power Technology Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 131. SuZhou Hydrogine Power Technology PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 132. SuZhou Hydrogine Power Technology PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 133. SuZhou Hydrogine Power Technology Main Business

Table 134. SuZhou Hydrogine Power Technology Latest Developments

Table 135. Zhejiang Fumei Metal Basic Information, PEM Hydrogen Production Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 136. Zhejiang Fumei Metal PEM Hydrogen Production Catalyst Product Portfolios and Specifications

Table 137. Zhejiang Fumei Metal PEM Hydrogen Production Catalyst Sales (Tons), Revenue (\$ Million), Price (K US\$/kg) and Gross Margin (2021-2026)

Table 138. Zhejiang Fumei Metal Main Business

Table 139. Zhejiang Fumei Metal Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of PEM Hydrogen Production Catalyst

Figure 2. PEM Hydrogen Production Catalyst Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global PEM Hydrogen Production Catalyst Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global PEM Hydrogen Production Catalyst Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. PEM Hydrogen Production Catalyst Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. PEM Hydrogen Production Catalyst Sales Market Share by Country/Region (2025)

Figure 10. PEM Hydrogen Production Catalyst Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of OER Catalyst

Figure 12. Product Picture of HER Catalyst

Figure 13. Product Picture of OER & HER

Figure 14. Global PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function in 2026

Figure 15. Global PEM Hydrogen Production Catalyst Revenue Market Share by Reaction Function (2021-2026)

Figure 16. Product Picture of Iridium-based Catalyst

Figure 17. Product Picture of Platinum-based Catalyst

Figure 18. Product Picture of Rhodium-based Catalyst

Figure 19. Product Picture of Ruthenium-based Catalyst

Figure 20. Product Picture of Others

Figure 21. Global PEM Hydrogen Production Catalyst Sales Market Share by Precious Metal Type in 2026

Figure 22. Global PEM Hydrogen Production Catalyst Revenue Market Share by Precious Metal Type (2021-2026)

Figure 23. Product Picture of Porous Catalyst

Figure 24. Product Picture of Nanoparticle Catalyst

Figure 25. Global PEM Hydrogen Production Catalyst Sales Market Share by Structure in 2026

Figure 26. Global PEM Hydrogen Production Catalyst Revenue Market Share by Structure (2021-2026)

Figure 27. PEM Hydrogen Production Catalyst Consumed in Energy

Figure 28. Global PEM Hydrogen Production Catalyst Market: Energy (2021-2026) & (Tons)

Figure 29. PEM Hydrogen Production Catalyst Consumed in Chemicals

Figure 30. Global PEM Hydrogen Production Catalyst Market: Chemicals (2021-2026) & (Tons)

Figure 31. PEM Hydrogen Production Catalyst Consumed in Automotive

Figure 32. Global PEM Hydrogen Production Catalyst Market: Automotive (2021-2026) & (Tons)

Figure 33. PEM Hydrogen Production Catalyst Consumed in Others

Figure 34. Global PEM Hydrogen Production Catalyst Market: Others (2021-2026) & (Tons)

Figure 35. Global PEM Hydrogen Production Catalyst Sale Market Share by Application (2025)

Figure 36. Global PEM Hydrogen Production Catalyst Revenue Market Share by Application in 2025

Figure 37. PEM Hydrogen Production Catalyst Sales by Company in 2025 (Tons)

Figure 38. Global PEM Hydrogen Production Catalyst Sales Market Share by Company in 2025

Figure 39. PEM Hydrogen Production Catalyst Revenue by Company in 2025 (\$ millions)

Figure 40. Global PEM Hydrogen Production Catalyst Revenue Market Share by Company in 2025

Figure 41. Global PEM Hydrogen Production Catalyst Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global PEM Hydrogen Production Catalyst Revenue Market Share by Geographic Region in 2025

Figure 43. Americas PEM Hydrogen Production Catalyst Sales 2021-2026 (Tons)

Figure 44. Americas PEM Hydrogen Production Catalyst Revenue 2021-2026 (\$ millions)

Figure 45. APAC PEM Hydrogen Production Catalyst Sales 2021-2026 (Tons)

Figure 46. APAC PEM Hydrogen Production Catalyst Revenue 2021-2026 (\$ millions)

Figure 47. Europe PEM Hydrogen Production Catalyst Sales 2021-2026 (Tons)

Figure 48. Europe PEM Hydrogen Production Catalyst Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa PEM Hydrogen Production Catalyst Sales 2021-2026 (Tons)

Figure 50. Middle East & Africa PEM Hydrogen Production Catalyst Revenue

2021-2026 (\$ millions)

Figure 51. Americas PEM Hydrogen Production Catalyst Sales Market Share by Country in 2025

Figure 52. Americas PEM Hydrogen Production Catalyst Revenue Market Share by Country (2021-2026)

Figure 53. Americas PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)

Figure 54. Americas PEM Hydrogen Production Catalyst Sales Market Share by Application (2021-2026)

Figure 55. United States PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC PEM Hydrogen Production Catalyst Sales Market Share by Region in 2025

Figure 60. APAC PEM Hydrogen Production Catalyst Revenue Market Share by Region (2021-2026)

Figure 61. APAC PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)

Figure 62. APAC PEM Hydrogen Production Catalyst Sales Market Share by Application (2021-2026)

Figure 63. China PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 66. Southeast Asia PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 67. India PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)

- Figure 70. Europe PEM Hydrogen Production Catalyst Sales Market Share by Country in 2025
- Figure 71. Europe PEM Hydrogen Production Catalyst Revenue Market Share by Country (2021-2026)
- Figure 72. Europe PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)
- Figure 73. Europe PEM Hydrogen Production Catalyst Sales Market Share by Application (2021-2026)
- Figure 74. Germany PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 75. France PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 76. UK PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Italy PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Russia PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Middle East & Africa PEM Hydrogen Production Catalyst Sales Market Share by Country (2021-2026)
- Figure 80. Middle East & Africa PEM Hydrogen Production Catalyst Sales Market Share by Reaction Function (2021-2026)
- Figure 81. Middle East & Africa PEM Hydrogen Production Catalyst Sales Market Share by Application (2021-2026)
- Figure 82. Egypt PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 83. South Africa PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Israel PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Turkey PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 86. GCC Countries PEM Hydrogen Production Catalyst Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Manufacturing Cost Structure Analysis of PEM Hydrogen Production Catalyst in 2026
- Figure 88. Manufacturing Process Analysis of PEM Hydrogen Production Catalyst
- Figure 89. Industry Chain Structure of PEM Hydrogen Production Catalyst
- Figure 90. Channels of Distribution

Figure 91. Global PEM Hydrogen Production Catalyst Sales Market Forecast by Region (2027-2032)

Figure 92. Global PEM Hydrogen Production Catalyst Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global PEM Hydrogen Production Catalyst Sales Market Share Forecast by Reaction Function (2027-2032)

Figure 94. Global PEM Hydrogen Production Catalyst Revenue Market Share Forecast by Reaction Function (2027-2032)

Figure 95. Global PEM Hydrogen Production Catalyst Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global PEM Hydrogen Production Catalyst Revenue Market Share Forecast by Application (2027-2032)

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