

Global Ammonia Cracking Catalysts Market Growth 2024-2030

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Abstracts

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Ammonia cracking is the process by which ammonia is decomposed towards hydrogen and nitrogen over a catalyst (based on base or pgm metals). It's typically used in applications where hydrogen is needed as either an energy source or fuel for downstream manufacturing processes.

Ammonia is a nitrogen-hydrogen compound that can be stored in liquid form in simple pressure vessels at temperatures around 100°C, 8 bar similar to natural gas. Ammonia is that it is the basic raw material for all nitrogen compounds and is already one of the most widely produced chemicals in the world, with over 200 million tons/year produced. Therefore, the production technology and infrastructure already exist. Typically, ammonia is produced via the Haber-Bosch process, in which hydrogen gas reacts catalytically with nitrogen from the air. If hydrogen is produced from renewable energy, it is truly carbon neutral because there is no carbon involved. Ammonia could therefore be used as zero-emission energy storage in future zero-emission energy systems. Ammonia cracking is a less mature technology that is not yet widely available. In order for ammonia to be used as an economical energy store for hydrogen, a stable and robust product needs to be available. Ammonia cracking catalyst is an important product essential for ammonia hydrogen storage.

The global Ammonia Cracking Catalysts market size is projected to grow from US\$ 9.4 million in 2024 to US\$ 403 million in 2030; it is expected to grow at a CAGR of 86.9% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Ammonia Cracking Catalysts



Industry Forecast" looks at past sales and reviews total world Ammonia Cracking Catalysts sales in 2023, providing a comprehensive analysis by region and market sector of projected Ammonia Cracking Catalysts sales for 2024 through 2030. With Ammonia Cracking Catalysts sales broken down by region, market sector and subsector, this report provides a detailed analysis in US\$ millions of the world Ammonia Cracking Catalysts industry.

This Insight Report provides a comprehensive analysis of the global Ammonia Cracking Catalysts 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 Ammonia Cracking Catalysts portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ammonia Cracking Catalysts market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ammonia Cracking Catalysts 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 bottomup qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ammonia Cracking Catalysts.

Global key players of Ammonia Cracking Catalysts include Johnson Matthey, Heraeus, Clariant, etc. The top three players hold a share over 92%. Europe is the largest market, with a share about 38%, followed by Asia-Pacific and North America, with share 35% and 27%, separately. In terms of product type, Pgm-based is the largest segment, occupied for a share of 71%. And in terms of application, Hydrogen Storage is the largest one, occupied for a share about 45 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of Ammonia Cracking Catalysts market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ni-based

Pgm-based



Segmentation by Application:

Hydrogen Storage

Metal Treatment

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

Heraeus

Clariant

Dorf Ketal

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ammonia Cracking Catalysts market?

What factors are driving Ammonia Cracking Catalysts market growth, globally and by



region?

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

How do Ammonia Cracking Catalysts market opportunities vary by end market size?

How does Ammonia Cracking Catalysts break out by Type, by Application?



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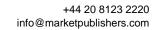
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Figure 82. Global Ammonia Cracking Catalysts Revenue Market Share Forecast by Application (2025-2030)



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