

# Global Ammonia Cracking Catalysts Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Ammonia Cracking Catalysts market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Global key players of ammonia cracking catalysts include Johnson Matthey, Heraeus, etc. The top two players hold a share over 95%.

Europe is the largest producer, has a share about 95%.

In terms of product type, pgm-based is the largest segment, occupied for a share of 55%, and in terms of application, metal treatment has a share about 40 percent.

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.

This report studies the global Ammonia Cracking Catalysts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonia Cracking Catalysts, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ammonia Cracking Catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonia Cracking Catalysts total production and demand, 2018-2029, (Tons)

Global Ammonia Cracking Catalysts total production value, 2018-2029, (USD Million)

Global Ammonia Cracking Catalysts production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Ammonia Cracking Catalysts consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Ammonia Cracking Catalysts domestic production, consumption, key domestic manufacturers and share

Global Ammonia Cracking Catalysts production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Ammonia Cracking Catalysts production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Ammonia Cracking Catalysts production by Application production, value,

CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Ammonia Cracking Catalysts 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, Heraeus and Dorf Ketal, 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 Ammonia Cracking Catalysts 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Ammonia Cracking Catalysts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Ammonia Cracking Catalysts Market, Segmentation by Type

Ni-based

Pgm-based

## Global Ammonia Cracking Catalysts Market, Segmentation by Application

Hydrogen Storage

Metal Treatment

Others

## Companies Profiled:

Johnson Matthey

Heraeus

Dorf Ketal

## Key Questions Answered

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

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