

Global Ammonia Cracking Catalysts Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Ammonia Cracking Catalysts market size was valued at USD 1 million in 2023 and is forecast to a readjusted size of USD 50 million by 2030 with a CAGR of 69.0% during review period.

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.

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.

The Global Info Research report includes an overview of the development of the Ammonia Cracking Catalysts industry chain, the market status of Hydrogen Storage (Ni-based, Pgm-based), Metal Treatment (Ni-based, Pgm-based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Ammonia Cracking Catalysts.

Regionally, the report analyzes the Ammonia Cracking Catalysts markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Ammonia Cracking Catalysts market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Ammonia Cracking Catalysts market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Ammonia Cracking Catalysts industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., Ni-based, Pgm-based).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Ammonia Cracking Catalysts market.

Regional Analysis: The report involves examining the Ammonia Cracking Catalysts market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Ammonia Cracking Catalysts market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Ammonia Cracking Catalysts:

Company Analysis: Report covers individual Ammonia Cracking Catalysts manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Ammonia Cracking Catalysts. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Hydrogen Storage, Metal Treatment).

Technology Analysis: Report covers specific technologies relevant to Ammonia Cracking Catalysts. It assesses the current state, advancements, and potential future developments in Ammonia Cracking Catalysts areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Ammonia Cracking Catalysts market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Ammonia Cracking Catalysts market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts

for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Ni-based

Pgm-based

Market segment by Application

Hydrogen Storage

Metal Treatment

Others

Major players covered

Johnson Matthey

Heraeus

Dorf Ketal

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ammonia Cracking Catalysts product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ammonia Cracking Catalysts, with price, sales, revenue and global market share of Ammonia Cracking Catalysts from 2019 to 2024.

Chapter 3, the Ammonia Cracking Catalysts competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ammonia Cracking Catalysts breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Ammonia Cracking Catalysts market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ammonia Cracking Catalysts.

Chapter 14 and 15, to describe Ammonia Cracking Catalysts sales channel, distributors, customers, research findings and conclusion.

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