

# Global Hydrodenitrogenation Catalyst (HDN) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/GA98B1C9C0A6EN.html>

Date: May 2023

Pages: 98

Price: US\$ 3,480.00 (Single User License)

ID: GA98B1C9C0A6EN

## Abstracts

According to our (Global Info Research) latest study, the global Hydrodenitrogenation Catalyst (HDN) market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Hydrodenitrogenation Catalyst (HDN) is a type of catalyst that is commonly used in the refining of petroleum and other hydrocarbon-based products. HDN catalysts are specifically designed to remove nitrogen-containing compounds from crude oil and other hydrocarbons, as these compounds can have negative impacts on the performance and quality of the end products.

Nitrogen-containing compounds, such as pyridine and quinoline, are found in crude oil and other hydrocarbons as impurities. These compounds can have negative effects on the performance of fuels and other products, such as reducing the octane number of gasoline and increasing the amount of particulate matter in diesel exhaust.

HDN catalysts work by promoting the reaction between hydrogen and nitrogen-containing compounds, which results in the removal of the nitrogen atoms from the molecule. The reaction is typically carried out under high pressure and high temperature conditions, and is catalyzed by a variety of metal-based catalysts, such as molybdenum, cobalt, and nickel.

The effectiveness of HDN catalysts is typically measured by the degree of nitrogen removal achieved, as well as the selectivity of the reaction. Selectivity refers to the

ability of the catalyst to selectively remove nitrogen-containing compounds, while minimizing the removal of other important components, such as sulfur-containing compounds.

HDN catalysts are an important component of the petroleum refining process, as they play a key role in the production of high-quality fuels and other hydrocarbon-based products. In addition to their use in the refining of crude oil, HDN catalysts are also used in the upgrading of biofuels, such as biodiesel, to remove nitrogen-containing impurities and improve their performance.

Overall, Hydrodenitrogenation Catalysts (HDN) are a vital component of the petroleum refining process, as they help to improve the performance and quality of hydrocarbon-based products by removing nitrogen-containing impurities.

This report is a detailed and comprehensive analysis for global Hydrodenitrogenation Catalyst (HDN) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

#### Key Features:

Global Hydrodenitrogenation Catalyst (HDN) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Hydrodenitrogenation Catalyst (HDN) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Hydrodenitrogenation Catalyst (HDN) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Hydrodenitrogenation Catalyst (HDN) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hydrodenitrogenation Catalyst (HDN)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrodenitrogenation Catalyst (HDN) 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 Advanced Refining Technologies (ART), Albemarle, Shell, Haldor Topsoe and UOP (Honeywell), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

## Market Segmentation

Hydrodenitrogenation Catalyst (HDN) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Ni-Mo

W-Mo-Ni

Other

### Market segment by Application

Diesel Hydrotreat

Lube Oils

Naphtha

Residue Upgrading

#### Major players covered

Advanced Refining Technologies (ART)

Albemarle

Shell

Haldor Topsoe

UOP (Honeywell)

Axens

Sinopec

CNPC

SJEP

#### 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 Hydrodenitrogenation Catalyst (HDN) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrodenitrogenation Catalyst (HDN), with price, sales, revenue and global market share of Hydrodenitrogenation Catalyst (HDN) from 2018 to 2023.

Chapter 3, the Hydrodenitrogenation Catalyst (HDN) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrodenitrogenation Catalyst (HDN) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and Hydrodenitrogenation Catalyst (HDN) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrodenitrogenation Catalyst (HDN).

Chapter 14 and 15, to describe Hydrodenitrogenation Catalyst (HDN) sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Hydrodenitrogenation Catalyst (HDN)
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type: 2018 Versus 2022 Versus 2029
  - 1.3.2 Ni-Mo
  - 1.3.3 W-Mo-Ni
  - 1.3.4 Other
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application: 2018 Versus 2022 Versus 2029
  - 1.4.2 Diesel Hydrotreat
  - 1.4.3 Lube Oils
  - 1.4.4 Naphtha
  - 1.4.5 Residue Upgrading
- 1.5 Global Hydrodenitrogenation Catalyst (HDN) Market Size & Forecast
  - 1.5.1 Global Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018 & 2022 & 2029)
  - 1.5.2 Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity (2018-2029)
  - 1.5.3 Global Hydrodenitrogenation Catalyst (HDN) Average Price (2018-2029)

### 2 MANUFACTURERS PROFILES

- 2.1 Advanced Refining Technologies (ART)
  - 2.1.1 Advanced Refining Technologies (ART) Details
  - 2.1.2 Advanced Refining Technologies (ART) Major Business
  - 2.1.3 Advanced Refining Technologies (ART) Hydrodenitrogenation Catalyst (HDN) Product and Services
  - 2.1.4 Advanced Refining Technologies (ART) Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.1.5 Advanced Refining Technologies (ART) Recent Developments/Updates
- 2.2 Albemarle
  - 2.2.1 Albemarle Details
  - 2.2.2 Albemarle Major Business
  - 2.2.3 Albemarle Hydrodenitrogenation Catalyst (HDN) Product and Services

2.2.4 Albemarle Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Albemarle Recent Developments/Updates

2.3 Shell

2.3.1 Shell Details

2.3.2 Shell Major Business

2.3.3 Shell Hydrodenitrogenation Catalyst (HDN) Product and Services

2.3.4 Shell Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Shell Recent Developments/Updates

2.4 Haldor Topsoe

2.4.1 Haldor Topsoe Details

2.4.2 Haldor Topsoe Major Business

2.4.3 Haldor Topsoe Hydrodenitrogenation Catalyst (HDN) Product and Services

2.4.4 Haldor Topsoe Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 Haldor Topsoe Recent Developments/Updates

2.5 UOP (Honeywell)

2.5.1 UOP (Honeywell) Details

2.5.2 UOP (Honeywell) Major Business

2.5.3 UOP (Honeywell) Hydrodenitrogenation Catalyst (HDN) Product and Services

2.5.4 UOP (Honeywell) Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 UOP (Honeywell) Recent Developments/Updates

2.6 Axens

2.6.1 Axens Details

2.6.2 Axens Major Business

2.6.3 Axens Hydrodenitrogenation Catalyst (HDN) Product and Services

2.6.4 Axens Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Axens Recent Developments/Updates

2.7 Sinopec

2.7.1 Sinopec Details

2.7.2 Sinopec Major Business

2.7.3 Sinopec Hydrodenitrogenation Catalyst (HDN) Product and Services

2.7.4 Sinopec Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Sinopec Recent Developments/Updates

2.8 CNPC



- 2.8.1 CNPC Details
- 2.8.2 CNPC Major Business
- 2.8.3 CNPC Hydrodenitrogenation Catalyst (HDN) Product and Services
- 2.8.4 CNPC Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 CNPC Recent Developments/Updates
- 2.9 SJEP
  - 2.9.1 SJEP Details
  - 2.9.2 SJEP Major Business
  - 2.9.3 SJEP Hydrodenitrogenation Catalyst (HDN) Product and Services
  - 2.9.4 SJEP Hydrodenitrogenation Catalyst (HDN) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.9.5 SJEP Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: HYDRODENITROGENATION CATALYST (HDN) BY MANUFACTURER**

- 3.1 Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Hydrodenitrogenation Catalyst (HDN) Revenue by Manufacturer (2018-2023)
- 3.3 Global Hydrodenitrogenation Catalyst (HDN) Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
  - 3.4.1 Producer Shipments of Hydrodenitrogenation Catalyst (HDN) by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Hydrodenitrogenation Catalyst (HDN) Manufacturer Market Share in 2022
  - 3.4.2 Top 6 Hydrodenitrogenation Catalyst (HDN) Manufacturer Market Share in 2022
- 3.5 Hydrodenitrogenation Catalyst (HDN) Market: Overall Company Footprint Analysis
  - 3.5.1 Hydrodenitrogenation Catalyst (HDN) Market: Region Footprint
  - 3.5.2 Hydrodenitrogenation Catalyst (HDN) Market: Company Product Type Footprint
  - 3.5.3 Hydrodenitrogenation Catalyst (HDN) Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Hydrodenitrogenation Catalyst (HDN) Market Size by Region
  - 4.1.1 Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region



(2018-2029)

4.1.2 Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region

(2018-2029)

4.1.3 Global Hydrodenitrogenation Catalyst (HDN) Average Price by Region

(2018-2029)

4.2 North America Hydrodenitrogenation Catalyst (HDN) Consumption Value

(2018-2029)

4.3 Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029)

4.4 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029)

4.5 South America Hydrodenitrogenation Catalyst (HDN) Consumption Value

(2018-2029)

4.6 Middle East and Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value

(2018-2029)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2029)

5.2 Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type

(2018-2029)

5.3 Global Hydrodenitrogenation Catalyst (HDN) Average Price by Type (2018-2029)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application

(2018-2029)

6.2 Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application

(2018-2029)

6.3 Global Hydrodenitrogenation Catalyst (HDN) Average Price by Application

(2018-2029)

## **7 NORTH AMERICA**

7.1 North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type

(2018-2029)

7.2 North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application

(2018-2029)

7.3 North America Hydrodenitrogenation Catalyst (HDN) Market Size by Country

7.3.1 North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country

(2018-2029)

7.3.2 North America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

## **8 EUROPE**

8.1 Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2029)

8.2 Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2029)

8.3 Europe Hydrodenitrogenation Catalyst (HDN) Market Size by Country

8.3.1 Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2029)

8.3.2 Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Market Size by Region

9.3.1 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

## **10 SOUTH AMERICA**

10.1 South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2029)

10.2 South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2029)

10.3 South America Hydrodenitrogenation Catalyst (HDN) Market Size by Country

10.3.1 South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2029)

10.3.2 South America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Market Size by Country

11.3.1 Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

## **12 MARKET DYNAMICS**

12.1 Hydrodenitrogenation Catalyst (HDN) Market Drivers

12.2 Hydrodenitrogenation Catalyst (HDN) Market Restraints

12.3 Hydrodenitrogenation Catalyst (HDN) Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
  - 12.5.1 Influence of COVID-19
  - 12.5.2 Influence of Russia-Ukraine War

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Hydrodenitrogenation Catalyst (HDN) and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Hydrodenitrogenation Catalyst (HDN)
- 13.3 Hydrodenitrogenation Catalyst (HDN) Production Process
- 13.4 Hydrodenitrogenation Catalyst (HDN) Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Hydrodenitrogenation Catalyst (HDN) Typical Distributors
- 14.3 Hydrodenitrogenation Catalyst (HDN) Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Advanced Refining Technologies (ART) Basic Information, Manufacturing Base and Competitors

Table 4. Advanced Refining Technologies (ART) Major Business

Table 5. Advanced Refining Technologies (ART) Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 6. Advanced Refining Technologies (ART) Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Advanced Refining Technologies (ART) Recent Developments/Updates

Table 8. Albemarle Basic Information, Manufacturing Base and Competitors

Table 9. Albemarle Major Business

Table 10. Albemarle Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 11. Albemarle Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Albemarle Recent Developments/Updates

Table 13. Shell Basic Information, Manufacturing Base and Competitors

Table 14. Shell Major Business

Table 15. Shell Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 16. Shell Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Shell Recent Developments/Updates

Table 18. Haldor Topsoe Basic Information, Manufacturing Base and Competitors

Table 19. Haldor Topsoe Major Business

Table 20. Haldor Topsoe Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 21. Haldor Topsoe Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Haldor Topsoe Recent Developments/Updates

Table 23. UOP (Honeywell) Basic Information, Manufacturing Base and Competitors

Table 24. UOP (Honeywell) Major Business

Table 25. UOP (Honeywell) Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 26. UOP (Honeywell) Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. UOP (Honeywell) Recent Developments/Updates

Table 28. Axens Basic Information, Manufacturing Base and Competitors

Table 29. Axens Major Business

Table 30. Axens Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 31. Axens Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Axens Recent Developments/Updates

Table 33. Sinopec Basic Information, Manufacturing Base and Competitors

Table 34. Sinopec Major Business

Table 35. Sinopec Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 36. Sinopec Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Sinopec Recent Developments/Updates

Table 38. CNPC Basic Information, Manufacturing Base and Competitors

Table 39. CNPC Major Business

Table 40. CNPC Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 41. CNPC Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. CNPC Recent Developments/Updates

Table 43. SJEP Basic Information, Manufacturing Base and Competitors

Table 44. SJEP Major Business

Table 45. SJEP Hydrodenitrogenation Catalyst (HDN) Product and Services

Table 46. SJEP Hydrodenitrogenation Catalyst (HDN) Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. SJEP Recent Developments/Updates

Table 48. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Manufacturer (2018-2023) & (Tons)

Table 49. Global Hydrodenitrogenation Catalyst (HDN) Revenue by Manufacturer (2018-2023) & (USD Million)

Table 50. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 51. Market Position of Manufacturers in Hydrodenitrogenation Catalyst (HDN), (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 52. Head Office and Hydrodenitrogenation Catalyst (HDN) Production Site of Key



**Manufacturer**

Table 53. Hydrodenitrogenation Catalyst (HDN) Market: Company Product Type Footprint

Table 54. Hydrodenitrogenation Catalyst (HDN) Market: Company Product Application Footprint

Table 55. Hydrodenitrogenation Catalyst (HDN) New Market Entrants and Barriers to Market Entry

Table 56. Hydrodenitrogenation Catalyst (HDN) Mergers, Acquisition, Agreements, and Collaborations

Table 57. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2018-2023) & (Tons)

Table 58. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2024-2029) & (Tons)

Table 59. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2018-2023) & (USD Million)

Table 60. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2024-2029) & (USD Million)

Table 61. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Region (2018-2023) & (US\$/Ton)

Table 62. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Region (2024-2029) & (US\$/Ton)

Table 63. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2023) & (Tons)

Table 64. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 65. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type (2018-2023) & (USD Million)

Table 66. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type (2024-2029) & (USD Million)

Table 67. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Type (2018-2023) & (US\$/Ton)

Table 68. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Type (2024-2029) & (US\$/Ton)

Table 69. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 70. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 71. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application (2018-2023) & (USD Million)



Table 72. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application (2024-2029) & (USD Million)

Table 73. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Application (2018-2023) & (US\$/Ton)

Table 74. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Application (2024-2029) & (US\$/Ton)

Table 75. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2023) & (Tons)

Table 76. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 77. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 78. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 79. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2023) & (Tons)

Table 80. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2024-2029) & (Tons)

Table 81. North America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2023) & (USD Million)

Table 82. North America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2024-2029) & (USD Million)

Table 83. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2023) & (Tons)

Table 84. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 85. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 86. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 87. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2023) & (Tons)

Table 88. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2024-2029) & (Tons)

Table 89. Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2023) & (USD Million)

Table 90. Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2024-2029) & (USD Million)

Table 91. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type

(2018-2023) & (Tons)

Table 92. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 93. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 94. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 95. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2018-2023) & (Tons)

Table 96. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2024-2029) & (Tons)

Table 97. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2018-2023) & (USD Million)

Table 98. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2024-2029) & (USD Million)

Table 99. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2023) & (Tons)

Table 100. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 101. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 102. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 103. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2018-2023) & (Tons)

Table 104. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Country (2024-2029) & (Tons)

Table 105. South America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2018-2023) & (USD Million)

Table 106. South America Hydrodenitrogenation Catalyst (HDN) Consumption Value by Country (2024-2029) & (USD Million)

Table 107. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2018-2023) & (Tons)

Table 108. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Type (2024-2029) & (Tons)

Table 109. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2018-2023) & (Tons)

Table 110. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Application (2024-2029) & (Tons)

Table 111. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2018-2023) & (Tons)

Table 112. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity by Region (2024-2029) & (Tons)

Table 113. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2018-2023) & (USD Million)

Table 114. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value by Region (2024-2029) & (USD Million)

Table 115. Hydrodenitrogenation Catalyst (HDN) Raw Material

Table 116. Key Manufacturers of Hydrodenitrogenation Catalyst (HDN) Raw Materials

Table 117. Hydrodenitrogenation Catalyst (HDN) Typical Distributors

Table 118. Hydrodenitrogenation Catalyst (HDN) Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Hydrodenitrogenation Catalyst (HDN) Picture
- Figure 2. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Type in 2022
- Figure 4. Ni-Mo Examples
- Figure 5. W-Mo-Ni Examples
- Figure 6. Other Examples
- Figure 7. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Application in 2022
- Figure 9. Diesel Hydrotreat Examples
- Figure 10. Lube Oils Examples
- Figure 11. Naphtha Examples
- Figure 12. Residue Upgrading Examples
- Figure 13. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 14. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 15. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity (2018-2029) & (Tons)
- Figure 16. Global Hydrodenitrogenation Catalyst (HDN) Average Price (2018-2029) & (US\$/Ton)
- Figure 17. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Manufacturer in 2022
- Figure 18. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Manufacturer in 2022
- Figure 19. Producer Shipments of Hydrodenitrogenation Catalyst (HDN) by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 20. Top 3 Hydrodenitrogenation Catalyst (HDN) Manufacturer (Consumption Value) Market Share in 2022
- Figure 21. Top 6 Hydrodenitrogenation Catalyst (HDN) Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by

Region (2018-2029)

Figure 23. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Region (2018-2029)

Figure 24. North America Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029) & (USD Million)

Figure 25. Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029) & (USD Million)

Figure 26. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029) & (USD Million)

Figure 27. South America Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029) & (USD Million)

Figure 28. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value (2018-2029) & (USD Million)

Figure 29. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Type (2018-2029)

Figure 30. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Type (2018-2029)

Figure 31. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Type (2018-2029) & (US\$/Ton)

Figure 32. Global Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 33. Global Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Application (2018-2029)

Figure 34. Global Hydrodenitrogenation Catalyst (HDN) Average Price by Application (2018-2029) & (US\$/Ton)

Figure 35. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Type (2018-2029)

Figure 36. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 37. North America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Country (2018-2029)

Figure 38. North America Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Country (2018-2029)

Figure 39. United States Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Canada Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Mexico Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Type (2018-2029)

Figure 43. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 44. Europe Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Country (2018-2029)

Figure 45. Europe Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Country (2018-2029)

Figure 46. Germany Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. France Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. United Kingdom Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Russia Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Italy Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Type (2018-2029)

Figure 52. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 53. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Region (2018-2029)

Figure 54. Asia-Pacific Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Region (2018-2029)

Figure 55. China Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Japan Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Korea Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. India Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Southeast Asia Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Australia Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market



Share by Type (2018-2029)

Figure 62. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 63. South America Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Country (2018-2029)

Figure 64. South America Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Country (2018-2029)

Figure 65. Brazil Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Argentina Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Type (2018-2029)

Figure 68. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Application (2018-2029)

Figure 69. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Sales Quantity Market Share by Region (2018-2029)

Figure 70. Middle East & Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value Market Share by Region (2018-2029)

Figure 71. Turkey Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Egypt Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Saudi Arabia Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. South Africa Hydrodenitrogenation Catalyst (HDN) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Hydrodenitrogenation Catalyst (HDN) Market Drivers

Figure 76. Hydrodenitrogenation Catalyst (HDN) Market Restraints

Figure 77. Hydrodenitrogenation Catalyst (HDN) Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Hydrodenitrogenation Catalyst (HDN) in 2022

Figure 80. Manufacturing Process Analysis of Hydrodenitrogenation Catalyst (HDN)

Figure 81. Hydrodenitrogenation Catalyst (HDN) Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology



Figure 86. Research Process and Data Source

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