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Global Hydrorefining Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrorefining Catalyst market size is expected to reach $ 2056 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Hydrorefining Catalysts are catalytic materials used in refinery hydroprocessing units to facilitate the removal of sulfur, nitrogen, oxygen, and metal impurities from feedstock oils—as well as to achieve olefin saturation, partial aromatics saturation, and product quality improvement—under specific temperature, pressure, and hydrogen conditions. Commercial products primarily feature sulfided active phases such as CoMo and NiMo, typically supported on alumina or modified alumina carriers; they are widely used in the hydroprocessing of naphtha, kerosene, diesel, gas oil, and residue.

Upstream raw materials for hydrotreating catalysts mainly include alumina and pseudoboehmite carrier materials; active metal precursors such as nickel, cobalt, molybdenum, and tungsten; and auxiliary agents including pore-forming agents, peptizing agents, binders, extrusion aids, and sulfiding/activation materials. Raw material costs are influenced by non-ferrous metal prices, carrier purity, and metal loading levels; the manufacturing costs for high-activity NiMo and multi-metal products are generally higher than those for conventional CoMo products. Downstream applications primarily involve oil refineries, integrated refining-chemical enterprises, and renewable fuel facilities. Catalysts are typically selected and loaded based on feedstock properties, hydrogen partial pressure, target sulfur/nitrogen specifications, and operational cycles, and are used in combination with guard bed materials, demetallization agents, and graded packing materials.

In 2025, global sales volume is approximately 135,000 metric tons, with a comprehensive average price of around $11.7 per kilogram; major manufacturers in the

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industry typically achieve gross profit margins of approximately 25%–35%.

Key drivers of the global hydrotreating catalyst market include requirements for low-sulfur gasoline and diesel; the processing of high-sulfur, high-nitrogen crude oils and an increased proportion of secondary processing distillates; the need for hydrocracking and FCC feedstock pretreatment; and the integration of renewable oils and pyrolysis oils from waste plastics into refining systems. Market competition has shifted from a sole focus on desulfurization activity toward a balanced approach that prioritizes denitrogenation, aromatics saturation, low hydrogen consumption, long operating cycles, and tolerance for complex contaminants; consequently, the value of graded catalyst systems—comprising guard beds, demetallizers, main catalysts, and post-treatment agents—is steadily rising. Industry growth is constrained by factors such as slowing capacity expansion in refining, long catalyst replacement cycles, competition from regenerated catalysts, price volatility of nickel-cobalt-molybdenum raw materials, and high hydrogen costs; meanwhile, lengthy refinery validation periods and high operational risks foster strong customer loyalty toward leading suppliers.

Report Scope

This report studies the global Hydrorefining Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrorefining Catalyst and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrorefining Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrorefining Catalyst total production and demand, 2021-2032, (Tons)

Global Hydrorefining Catalyst total production value, 2021-2032, (USD Million)

Global Hydrorefining Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Hydrorefining Catalyst consumption by region & country, CAGR, 2021-2032 & (Tons)

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U.S. VS China: Hydrorefining Catalyst domestic production, consumption, key domestic manufacturers and share

Global Hydrorefining Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Hydrorefining Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Hydrorefining Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Hydrorefining Catalyst 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 Ketjen, Topsoe, Axens, Shell, Honeywell UOP, W. R. Grace, JGC Catalysts and Chemicals, Sinopec, CNPC, 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 Hydrorefining Catalyst 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydrorefining Catalyst Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrorefining Catalyst Market, Segmentation by Type:

CoMo Type

NiMo Type

Other

Global Hydrorefining Catalyst Market, Segmentation by Support:

Alumina

Modified Alumina

Other

Global Hydrorefining Catalyst Market, Segmentation by Shape:

Cylindrical

Trilobal

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Multilobal

Global Hydrorefining Catalyst Market, Segmentation by Application:

Naphtha

Kerosene

Diesel

Gas Oil

Others

Companies Profiled:

Ketjen

Topsoe

Axens

Shell

Honeywell UOP

W. R. Grace

JGC Catalysts and Chemicals

Sinopec

CNPC

Key Questions Answered:

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1. How big is the global Hydrorefining Catalyst market?
2. What is the demand of the global Hydrorefining Catalyst market?
3. What is the year over year growth of the global Hydrorefining Catalyst market?
4. What is the production and production value of the global Hydrorefining Catalyst market?
5. Who are the key producers in the global Hydrorefining Catalyst market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Hydrorefining Catalyst Introduction
1.2 World Hydrorefining Catalyst Supply & Forecast
  1.2.1 World Hydrorefining Catalyst Production Value (2021 & 2025 & 2032)
  1.2.2 World Hydrorefining Catalyst Production (2021-2032)
  1.2.3 World Hydrorefining Catalyst Pricing Trends (2021-2032)
1.3 World Hydrorefining Catalyst Production by Region (Based on Production Site)
  1.3.1 World Hydrorefining Catalyst Production Value by Region (2021-2032)
  1.3.2 World Hydrorefining Catalyst Production by Region (2021-2032)
  1.3.3 World Hydrorefining Catalyst Average Price by Region (2021-2032)
  1.3.4 North America Hydrorefining Catalyst Production (2021-2032)
  1.3.5 Europe Hydrorefining Catalyst Production (2021-2032)
  1.3.6 China Hydrorefining Catalyst Production (2021-2032)
  1.3.7 Japan Hydrorefining Catalyst Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Hydrorefining Catalyst Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Hydrorefining Catalyst Major Market Trends

2 DEMAND SUMMARY

2.1 World Hydrorefining Catalyst Demand (2021-2032)
2.2 World Hydrorefining Catalyst Consumption by Region
  2.2.1 World Hydrorefining Catalyst Consumption by Region (2021-2026)
  2.2.2 World Hydrorefining Catalyst Consumption Forecast by Region (2027-2032)
2.3 United States Hydrorefining Catalyst Consumption (2021-2032)
2.4 China Hydrorefining Catalyst Consumption (2021-2032)
2.5 Europe Hydrorefining Catalyst Consumption (2021-2032)
2.6 Japan Hydrorefining Catalyst Consumption (2021-2032)
2.7 South Korea Hydrorefining Catalyst Consumption (2021-2032)
2.8 ASEAN Hydrorefining Catalyst Consumption (2021-2032)
2.9 India Hydrorefining Catalyst Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Hydrorefining Catalyst Production Value by Manufacturer (2021-2026)

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3.2 World Hydrorefining Catalyst Production by Manufacturer (2021-2026)
3.3 World Hydrorefining Catalyst Average Price by Manufacturer (2021-2026)
3.4 Hydrorefining Catalyst Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Hydrorefining Catalyst Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Hydrorefining Catalyst in 2025
  3.5.3 Global Concentration Ratios (CR8) for Hydrorefining Catalyst in 2025
3.6 Hydrorefining Catalyst Market: Overall Company Footprint Analysis
  3.6.1 Hydrorefining Catalyst Market: Region Footprint
  3.6.2 Hydrorefining Catalyst Market: Company Product Type Footprint
  3.6.3 Hydrorefining Catalyst Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Hydrorefining Catalyst Production Value Comparison
  4.1.1 United States VS China: Hydrorefining Catalyst Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Hydrorefining Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Hydrorefining Catalyst Production Comparison
  4.2.1 United States VS China: Hydrorefining Catalyst Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Hydrorefining Catalyst Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Hydrorefining Catalyst Consumption Comparison
  4.3.1 United States VS China: Hydrorefining Catalyst Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Hydrorefining Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Hydrorefining Catalyst Manufacturers and Market Share, 2021-2026
  4.4.1 United States Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (States, Country)

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4.4.2 United States Based Manufacturers Hydrorefining Catalyst Production Value (2021-2026)
4.4.3 United States Based Manufacturers Hydrorefining Catalyst Production (2021-2026)
4.5 China Based Hydrorefining Catalyst Manufacturers and Market Share
4.5.1 China Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Hydrorefining Catalyst Production Value (2021-2026)
4.5.3 China Based Manufacturers Hydrorefining Catalyst Production (2021-2026)
4.6 Rest of World Based Hydrorefining Catalyst Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Hydrorefining Catalyst Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Hydrorefining Catalyst Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Hydrorefining Catalyst Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 CoMo Type
5.2.2 NiMo Type
5.2.3 Other
5.3 Market Segment by Type
5.3.1 World Hydrorefining Catalyst Production by Type (2021-2032)
5.3.2 World Hydrorefining Catalyst Production Value by Type (2021-2032)
5.3.3 World Hydrorefining Catalyst Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SUPPORT

6.1 World Hydrorefining Catalyst Market Size Overview by Support: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Support
6.2.1 Alumina
6.2.2 Modified Alumina

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6.2.3 Other
6.3 Market Segment by Support
6.3.1 World Hydrorefining Catalyst Production by Support (2021-2032)
6.3.2 World Hydrorefining Catalyst Production Value by Support (2021-2032)
6.3.3 World Hydrorefining Catalyst Average Price by Support (2021-2032)

7 MARKET ANALYSIS BY SHAPE

7.1 World Hydrorefining Catalyst Market Size Overview by Shape: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Shape
7.2.1 Cylindrical
7.2.2 Trilobal
7.2.3 Multilobal
7.3 Market Segment by Shape
7.3.1 World Hydrorefining Catalyst Production by Shape (2021-2032)
7.3.2 World Hydrorefining Catalyst Production Value by Shape (2021-2032)
7.3.3 World Hydrorefining Catalyst Average Price by Shape (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Hydrorefining Catalyst Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Naphtha
8.2.2 Kerosene
8.2.3 Diesel
8.2.4 Gas Oil
8.2.5 Others
8.3 Market Segment by Application
8.3.1 World Hydrorefining Catalyst Production by Application (2021-2032)
8.3.2 World Hydrorefining Catalyst Production Value by Application (2021-2032)
8.3.3 World Hydrorefining Catalyst Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Ketjen
9.1.1 Ketjen Details
9.1.2 Ketjen Major Business

+357 96 030922
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9.1.3 Ketjen Hydrorefining Catalyst Product and Services
9.1.4 Ketjen Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Ketjen Recent Developments/Updates
9.1.6 Ketjen Competitive Strengths & Weaknesses
9.2 Topsoe
9.2.1 Topsoe Details
9.2.2 Topsoe Major Business
9.2.3 Topsoe Hydrorefining Catalyst Product and Services
9.2.4 Topsoe Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Topsoe Recent Developments/Updates
9.2.6 Topsoe Competitive Strengths & Weaknesses
9.3 Axens
9.3.1 Axens Details
9.3.2 Axens Major Business
9.3.3 Axens Hydrorefining Catalyst Product and Services
9.3.4 Axens Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Axens Recent Developments/Updates
9.3.6 Axens Competitive Strengths & Weaknesses
9.4 Shell
9.4.1 Shell Details
9.4.2 Shell Major Business
9.4.3 Shell Hydrorefining Catalyst Product and Services
9.4.4 Shell Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Shell Recent Developments/Updates
9.4.6 Shell Competitive Strengths & Weaknesses
9.5 Honeywell UOP
9.5.1 Honeywell UOP Details
9.5.2 Honeywell UOP Major Business
9.5.3 Honeywell UOP Hydrorefining Catalyst Product and Services
9.5.4 Honeywell UOP Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Honeywell UOP Recent Developments/Updates
9.5.6 Honeywell UOP Competitive Strengths & Weaknesses
9.6 W. R. Grace
9.6.1 W. R. Grace Details

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9.6.2 W. R. Grace Major Business
9.6.3 W. R. Grace Hydrorefining Catalyst Product and Services
9.6.4 W. R. Grace Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 W. R. Grace Recent Developments/Updates
9.6.6 W. R. Grace Competitive Strengths & Weaknesses
9.7 JGC Catalysts and Chemicals
9.7.1 JGC Catalysts and Chemicals Details
9.7.2 JGC Catalysts and Chemicals Major Business
9.7.3 JGC Catalysts and Chemicals Hydrorefining Catalyst Product and Services
9.7.4 JGC Catalysts and Chemicals Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 JGC Catalysts and Chemicals Recent Developments/Updates
9.7.6 JGC Catalysts and Chemicals Competitive Strengths & Weaknesses
9.8 Sinopec
9.8.1 Sinopec Details
9.8.2 Sinopec Major Business
9.8.3 Sinopec Hydrorefining Catalyst Product and Services
9.8.4 Sinopec Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Sinopec Recent Developments/Updates
9.8.6 Sinopec Competitive Strengths & Weaknesses
9.9 CNPC
9.9.1 CNPC Details
9.9.2 CNPC Major Business
9.9.3 CNPC Hydrorefining Catalyst Product and Services
9.9.4 CNPC Hydrorefining Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 CNPC Recent Developments/Updates
9.9.6 CNPC Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Hydrorefining Catalyst Industry Chain
10.2 Hydrorefining Catalyst Upstream Analysis
10.2.1 Hydrorefining Catalyst Core Raw Materials
10.2.2 Main Manufacturers of Hydrorefining Catalyst Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis

+357 96 030922
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10.5 Hydrorefining Catalyst Production Mode
10.6 Hydrorefining Catalyst Procurement Model
10.7 Hydrorefining Catalyst Industry Sales Model and Sales Channels
10.7.1 Hydrorefining Catalyst Sales Model
10.7.2 Hydrorefining Catalyst Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. World Hydrorefining Catalyst Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Hydrorefining Catalyst Production Value by Region (2021-2026) & (USD Million)
Table 3. World Hydrorefining Catalyst Production Value by Region (2027-2032) & (USD Million)
Table 4. World Hydrorefining Catalyst Production Value Market Share by Region (2021-2026)
Table 5. World Hydrorefining Catalyst Production Value Market Share by Region (2027-2032)
Table 6. World Hydrorefining Catalyst Production by Region (2021-2026) & (Tons)
Table 7. World Hydrorefining Catalyst Production by Region (2027-2032) & (Tons)
Table 8. World Hydrorefining Catalyst Production Market Share by Region (2021-2026)
Table 9. World Hydrorefining Catalyst Production Market Share by Region (2027-2032)
Table 10. World Hydrorefining Catalyst Average Price by Region (2021-2026) & (US$/kg)
Table 11. World Hydrorefining Catalyst Average Price by Region (2027-2032) & (US$/kg)
Table 12. Hydrorefining Catalyst Major Market Trends
Table 13. World Hydrorefining Catalyst Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
Table 14. World Hydrorefining Catalyst Consumption by Region (2021-2026) & (Tons)
Table 15. World Hydrorefining Catalyst Consumption Forecast by Region (2027-2032) & (Tons)
Table 16. World Hydrorefining Catalyst Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Hydrorefining Catalyst Producers in 2025
Table 18. World Hydrorefining Catalyst Production by Manufacturer (2021-2026) & (Tons)
Table 19. Production Market Share of Key Hydrorefining Catalyst Producers in 2025
Table 20. World Hydrorefining Catalyst Average Price by Manufacturer (2021-2026) & (US$/kg)
Table 21. Global Hydrorefining Catalyst Company Evaluation Quadrant
Table 22. World Hydrorefining Catalyst Industry Rank of Major Manufacturers, Based on

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Production Value in 2025
Table 23. Head Office and Hydrorefining Catalyst Production Site of Key Manufacturer
Table 24. Hydrorefining Catalyst Market: Company Product Type Footprint
Table 25. Hydrorefining Catalyst Market: Company Product Application Footprint
Table 26. Hydrorefining Catalyst Competitive Factors
Table 27. Hydrorefining Catalyst New Entrant and Capacity Expansion Plans
Table 28. Hydrorefining Catalyst Mergers & Acquisitions Activity
Table 29. United States VS China Hydrorefining Catalyst Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Hydrorefining Catalyst Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China Hydrorefining Catalyst Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Hydrorefining Catalyst Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Hydrorefining Catalyst Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Hydrorefining Catalyst Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers Hydrorefining Catalyst Production Market Share (2021-2026)
Table 37. China Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Hydrorefining Catalyst Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Hydrorefining Catalyst Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Hydrorefining Catalyst Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Hydrorefining Catalyst Production Market Share (2021-2026)
Table 42. Rest of World Based Hydrorefining Catalyst Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Hydrorefining Catalyst Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Hydrorefining Catalyst Production Value Market Share (2021-2026)

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Table 45. Rest of World Based Manufacturers Hydrorefining Catalyst Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers Hydrorefining Catalyst Production Market Share (2021-2026)
Table 47. World Hydrorefining Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Hydrorefining Catalyst Production by Type (2021-2026) & (Tons)
Table 49. World Hydrorefining Catalyst Production by Type (2027-2032) & (Tons)
Table 50. World Hydrorefining Catalyst Production Value by Type (2021-2026) & (USD Million)
Table 51. World Hydrorefining Catalyst Production Value by Type (2027-2032) & (USD Million)
Table 52. World Hydrorefining Catalyst Average Price by Type (2021-2026) & (US$/kg)
Table 53. World Hydrorefining Catalyst Average Price by Type (2027-2032) & (US$/kg)
Table 54. World Hydrorefining Catalyst Production Value by Support, (USD Million), 2021 & 2025 & 2032
Table 55. World Hydrorefining Catalyst Production by Support (2021-2026) & (Tons)
Table 56. World Hydrorefining Catalyst Production by Support (2027-2032) & (Tons)
Table 57. World Hydrorefining Catalyst Production Value by Support (2021-2026) & (USD Million)
Table 58. World Hydrorefining Catalyst Production Value by Support (2027-2032) & (USD Million)
Table 59. World Hydrorefining Catalyst Average Price by Support (2021-2026) & (US$/kg)
Table 60. World Hydrorefining Catalyst Average Price by Support (2027-2032) & (US$/kg)
Table 61. World Hydrorefining Catalyst Production Value by Shape, (USD Million), 2021 & 2025 & 2032
Table 62. World Hydrorefining Catalyst Production by Shape (2021-2026) & (Tons)
Table 63. World Hydrorefining Catalyst Production by Shape (2027-2032) & (Tons)
Table 64. World Hydrorefining Catalyst Production Value by Shape (2021-2026) & (USD Million)
Table 65. World Hydrorefining Catalyst Production Value by Shape (2027-2032) & (USD Million)
Table 66. World Hydrorefining Catalyst Average Price by Shape (2021-2026) & (US$/kg)
Table 67. World Hydrorefining Catalyst Average Price by Shape (2027-2032) & (US$/kg)
Table 68. World Hydrorefining Catalyst Production Value by Application, (USD Million),

+357 96 030922
info@marketpublishers.com

2021 & 2025 & 2032
Table 69. World Hydrorefining Catalyst Production by Application (2021-2026) & (Tons)
Table 70. World Hydrorefining Catalyst Production by Application (2027-2032) & (Tons)
Table 71. World Hydrorefining Catalyst Production Value by Application (2021-2026) & (USD Million)
Table 72. World Hydrorefining Catalyst Production Value by Application (2027-2032) & (USD Million)
Table 73. World Hydrorefining Catalyst Average Price by Application (2021-2026) & (US$/kg)
Table 74. World Hydrorefining Catalyst Average Price by Application (2027-2032) & (US$/kg)
Table 75. Ketjen Basic Information, Manufacturing Base and Competitors
Table 76. Ketjen Major Business
Table 77. Ketjen Hydrorefining Catalyst Product and Services
Table 78. Ketjen Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Ketjen Recent Developments/Updates
Table 80. Ketjen Competitive Strengths & Weaknesses
Table 81. Topsoe Basic Information, Manufacturing Base and Competitors
Table 82. Topsoe Major Business
Table 83. Topsoe Hydrorefining Catalyst Product and Services
Table 84. Topsoe Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Topsoe Recent Developments/Updates
Table 86. Topsoe Competitive Strengths & Weaknesses
Table 87. Axens Basic Information, Manufacturing Base and Competitors
Table 88. Axens Major Business
Table 89. Axens Hydrorefining Catalyst Product and Services
Table 90. Axens Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Axens Recent Developments/Updates
Table 92. Axens Competitive Strengths & Weaknesses
Table 93. Shell Basic Information, Manufacturing Base and Competitors
Table 94. Shell Major Business
Table 95. Shell Hydrorefining Catalyst Product and Services
Table 96. Shell Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Shell Recent Developments/Updates
Table 98. Shell Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

Table 99. Honeywell UOP Basic Information, Manufacturing Base and Competitors
Table 100. Honeywell UOP Major Business
Table 101. Honeywell UOP Hydrorefining Catalyst Product and Services
Table 102. Honeywell UOP Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Honeywell UOP Recent Developments/Updates
Table 104. Honeywell UOP Competitive Strengths & Weaknesses
Table 105. W. R. Grace Basic Information, Manufacturing Base and Competitors
Table 106. W. R. Grace Major Business
Table 107. W. R. Grace Hydrorefining Catalyst Product and Services
Table 108. W. R. Grace Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. W. R. Grace Recent Developments/Updates
Table 110. W. R. Grace Competitive Strengths & Weaknesses
Table 111. JGC Catalysts and Chemicals Basic Information, Manufacturing Base and Competitors
Table 112. JGC Catalysts and Chemicals Major Business
Table 113. JGC Catalysts and Chemicals Hydrorefining Catalyst Product and Services
Table 114. JGC Catalysts and Chemicals Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. JGC Catalysts and Chemicals Recent Developments/Updates
Table 116. JGC Catalysts and Chemicals Competitive Strengths & Weaknesses
Table 117. Sinopec Basic Information, Manufacturing Base and Competitors
Table 118. Sinopec Major Business
Table 119. Sinopec Hydrorefining Catalyst Product and Services
Table 120. Sinopec Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Sinopec Recent Developments/Updates
Table 122. Sinopec Competitive Strengths & Weaknesses
Table 123. CNPC Basic Information, Manufacturing Base and Competitors
Table 124. CNPC Major Business
Table 125. CNPC Hydrorefining Catalyst Product and Services
Table 126. CNPC Hydrorefining Catalyst Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. CNPC Recent Developments/Updates
Table 128. CNPC Competitive Strengths & Weaknesses
Table 129. Global Key Players of Hydrorefining Catalyst Upstream (Raw Materials)
Table 130. Global Hydrorefining Catalyst Typical Customers

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Table 131. Hydrorefining Catalyst Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Hydrorefining Catalyst Picture
Figure 2. World Hydrorefining Catalyst Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Hydrorefining Catalyst Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Hydrorefining Catalyst Production (2021-2032) & (Tons)
Figure 5. World Hydrorefining Catalyst Average Price (2021-2032) & (US$/kg)
Figure 6. World Hydrorefining Catalyst Production Value Market Share by Region (2021-2032)
Figure 7. World Hydrorefining Catalyst Production Market Share by Region (2021-2032)
Figure 8. North America Hydrorefining Catalyst Production (2021-2032) & (Tons)
Figure 9. Europe Hydrorefining Catalyst Production (2021-2032) & (Tons)
Figure 10. China Hydrorefining Catalyst Production (2021-2032) & (Tons)
Figure 11. Japan Hydrorefining Catalyst Production (2021-2032) & (Tons)
Figure 12. Hydrorefining Catalyst Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 15. World Hydrorefining Catalyst Consumption Market Share by Region (2021-2032)
Figure 16. United States Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 17. China Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 18. Europe Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 19. Japan Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 20. South Korea Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 21. ASEAN Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 22. India Hydrorefining Catalyst Consumption (2021-2032) & (Tons)
Figure 23. Producer Shipments of Hydrorefining Catalyst by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Hydrorefining Catalyst Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Hydrorefining Catalyst Markets in 2025
Figure 26. United States VS China: Hydrorefining Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Hydrorefining Catalyst Production Market Share

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Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Hydrorefining Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Hydrorefining Catalyst Production Market Share 2025
Figure 30. China Based Manufacturers Hydrorefining Catalyst Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Hydrorefining Catalyst Production Market Share 2025
Figure 32. World Hydrorefining Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Hydrorefining Catalyst Production Value Market Share by Type in 2025
Figure 34. CoMo Type
Figure 35. NiMo Type
Figure 36. Other
Figure 37. World Hydrorefining Catalyst Production Market Share by Type (2021-2032)
Figure 38. World Hydrorefining Catalyst Production Value Market Share by Type (2021-2032)
Figure 39. World Hydrorefining Catalyst Average Price by Type (2021-2032) & (US$/kg)
Figure 40. World Hydrorefining Catalyst Production Value by Support, (USD Million), 2021 & 2025 & 2032
Figure 41. World Hydrorefining Catalyst Production Value Market Share by Support in 2025
Figure 42. Alumina
Figure 43. Modified Alumina
Figure 44. Other
Figure 45. World Hydrorefining Catalyst Production Market Share by Support (2021-2032)
Figure 46. World Hydrorefining Catalyst Production Value Market Share by Support (2021-2032)
Figure 47. World Hydrorefining Catalyst Average Price by Support (2021-2032) & (US$/kg)
Figure 48. World Hydrorefining Catalyst Production Value by Shape, (USD Million), 2021 & 2025 & 2032
Figure 49. World Hydrorefining Catalyst Production Value Market Share by Shape in 2025
Figure 50. Cylindrical
Figure 51. Trilobal

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Figure 52. Multilobal
Figure 53. World Hydrorefining Catalyst Production Market Share by Shape (2021-2032)
Figure 54. World Hydrorefining Catalyst Production Value Market Share by Shape (2021-2032)
Figure 55. World Hydrorefining Catalyst Average Price by Shape (2021-2032) & (US$/kg)
Figure 56. World Hydrorefining Catalyst Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 57. World Hydrorefining Catalyst Production Value Market Share by Application in 2025
Figure 58. Naphtha
Figure 59. Kerosene
Figure 60. Diesel
Figure 61. Gas Oil
Figure 62. Others
Figure 63. World Hydrorefining Catalyst Production Market Share by Application (2021-2032)
Figure 64. World Hydrorefining Catalyst Production Value Market Share by Application (2021-2032)
Figure 65. World Hydrorefining Catalyst Average Price by Application (2021-2032) & (US$/kg)
Figure 66. Hydrorefining Catalyst Industry Chain
Figure 67. Hydrorefining Catalyst Procurement Model
Figure 68. Hydrorefining Catalyst Sales Model
Figure 69. Hydrorefining Catalyst Sales Channels, Direct Sales, and Distribution
Figure 70. Methodology
Figure 71. Research Process and Data Source

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