

Global Renewable Fuel Hydrotreating Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Renewable Fuel Hydrotreating Catalyst market size was valued at US\$ 173 million in 2025 and is forecast to a readjusted size of US\$ 304 million by 2032 with a CAGR of 8.4% during review period.

Renewable fuel hydrotreating catalysts are fixed-bed catalyst systems used in HVO/HEFA, renewable diesel, SAF, and renewable naphtha production units. They typically include guard bed, hydrodeoxygenation, olefin/aromatic saturation, isomerization dewaxing, and mild cracking catalysts. These products are mainly based on NiMo, CoMo, NiW, precious metal, or bifunctional molecular sieve systems. They are used to treat impurities such as oxygen, silicon, phosphorus, metals, and chlorine in feedstocks including waste oils and fats, vegetable oils, animal fats, tall oil, and pyrolysis oil, with the goal of improving liquid yield, cold-flow performance, and unit operating cycle. The product's gross margin is approximately 38%.

On the demand side, core incremental growth comes from renewable diesel and HEFA/SAF units. North America remains the largest single market; Europe is driven by RED III, ReFuelEU Aviation, and marine fuel decarbonization requirements; and new Asian projects are more focused on export-oriented SAF and HVO configurations. Compared with conventional diesel hydrotreating, renewable lipid feedstocks have high oxygen content and are accompanied by silicon, phosphorus, alkali metals, chlorine, high acid value, and other issues. Therefore, simply applying conventional diesel hydrotreating catalysts makes it difficult to ensure yield and cycle length, driving continued growth in the use of dedicated guard beds, hydrodeoxygenation catalysts, and isomerization catalysts.

On the supply side, the market is concentrated among a small number of companies with refining hydrotreating experience and process package capabilities. Suppliers such as Topsoe, Honeywell UOP, Axens, Shell, BASF, Ketjen, ART/Grace, and CLG usually bundle catalysts with unit design, start-up sulfiding, operational optimization, and regeneration services. Customers place greater emphasis on full-cycle liquid yield, hydrogen consumption, pressure drop, and catalyst replacement cycle than on catalyst price per ton. As the share of used oils and fats, animal fats, and low-grade lipid feedstocks increases, high-impurity-tolerant guard materials, silicon/phosphorus scavengers, and low-cracking isomerization catalysts become more valuable.

In the mid-term, growth is expected to outpace ordinary refinery hydrotreating catalysts, mainly due to HEFA project start-ups, catalyst replacement in existing units, higher isomerization/cracking requirements under SAF production mode, and increased guard material consumption caused by lower-quality feedstocks.

This report is a detailed and comprehensive analysis for global Renewable Fuel Hydrotreating Catalyst 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 2025, are provided.

Key Features:

Global Renewable Fuel Hydrotreating Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Renewable Fuel Hydrotreating Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Renewable Fuel Hydrotreating Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Renewable Fuel Hydrotreating Catalyst market shares of main players,

shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

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 Renewable Fuel Hydrotreating Catalyst

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 Renewable Fuel Hydrotreating Catalyst market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Topsoe, Honeywell UOP, Axens, Shell Catalysts & Technologies, BASF, Ketjen, Advanced Refining Technologies, Chevron Lummus Global, Elessent Clean Technologies, JGC Catalysts and Chemicals, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Renewable Fuel Hydrotreating Catalyst market is split by Type and by Application. For the period 2021-2032, 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

Guard and Grading Catalysts

Hydrodeoxygenation Catalysts

Hydroisomerization Catalysts

Hydrocracking and Dewaxing Catalysts

Saturation and Finishing Catalysts

Other Catalysts

Market segment by Active Metal System

NiMo Catalysts

CoMo Catalysts

NiW Catalysts

Noble Metal Catalysts

Non-Sulfide Base Metal Catalysts

Other Metal Systems

Market segment by Feedstock Duty

100% Lipid Feed Catalysts

Co-Processing Feed Catalysts

High-Contaminant Feed Catalysts

Pyrolysis Oil Feed Catalysts

Other Feed Catalysts

Market segment by Supply State

Oxide Catalysts

Presulfided Catalysts

Regenerated Catalysts

Rejuvenated Catalysts

Other Supply States

Market segment by Application

Renewable Diesel Production

Sustainable Aviation Fuel Production

Renewable Naphtha Production

Bio-LPG and Propane Production

Refinery Co-Processing

Pyrolysis Oil Upgrading

Feedstock Pretreatment Guard Beds

Major players covered

Topsoe

Honeywell UOP

Axens

Shell Catalysts & Technologies

BASF

Ketjen

Advanced Refining Technologies

Chevron Lummus Global

Ellessent Clean Technologies

JGC Catalysts and Chemicals

Sinopec Catalyst

PetroChina

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 Renewable Fuel Hydrotreating Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Renewable Fuel Hydrotreating Catalyst, with price, sales quantity, revenue, and global market share of Renewable Fuel Hydrotreating Catalyst from 2021 to 2026.

Chapter 3, the Renewable Fuel Hydrotreating Catalyst competitive situation,

sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Renewable Fuel Hydrotreating Catalyst breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Renewable Fuel Hydrotreating Catalyst market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Renewable Fuel Hydrotreating Catalyst.

Chapter 14 and 15, to describe Renewable Fuel Hydrotreating Catalyst sales channel, distributors, customers, research findings and conclusion.

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