

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

<https://marketpublishers.com/r/RBB3D25D1736EN.html>

Date: April 2026

Pages: 109

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

ID: RBB3D25D1736EN

Abstracts

According to our (Global Info Research) latest study, the global Resid Hydrotreating Catalyst market size was valued at US\$ 442 million in 2025 and is forecast to a readjusted size of US\$ 526 million by 2032 with a CAGR of 2.5% during review period.

In 2025, global Resid Hydrotreating Catalyst Production Catalyst Production Catalyst Production production reached approximately 143.3 kilotons with an average global market price of around US\$3000 per ton. Single-line annual production capacity averages 9000 tons with a gross margin of approximately 26.48-27.71%. The upstream of Resid Hydrotreating Catalysts relies primarily on the supply of key materials such as high-quality alumina supports, specialized active metal compounds (molybdenum, nickel, cobalt), and specialty molecular sieves, with the core of the industrial chain concentrated in the high-performance chemical materials sector. In downstream applications, fixed-bed resid hydrotreating dominates consumption, accounting for approximately 65%, followed by vacuum gas oil hydrotreating at around 30%, with other processes making up the remaining 5%. Demand for these catalysts is driven by the increasing global proportion of heavy crude oil processing, tightening environmental regulations, and the pressing need for refineries to enhance quality and efficiency. The core commercial opportunities lie in the development of customized catalysts for processing ultra-high metal and high-carbon-residue inferior feedstocks, as well as innovative integrated solutions that significantly extend unit operational cycles and reduce operating costs.

Resid hydrotreating catalysts are engineered to perform under extreme conditions of high metals and asphaltene content, with the core objective of achieving substantial heteroatom (sulfur, nitrogen) removal, metals (Ni, V) rejection into a stable coke-metal

matrix, and controlled cracking of large molecules. This prevents rapid pore mouth plugging and preserves active sites, thereby extending catalyst cycle length and enabling stable operation of downstream fixed-bed reactors. The intrinsic benefit lies in converting the heaviest refinery fraction into upgraded, lower-sulfur feed suitable for deeper conversion units, directly impacting overall refinery yield slate, operational continuity, and compliance with stringent fuel specifications. Fundamentally, it serves as a critical enabling technology for bottom-of-the-barrel valorization, transforming resid from a low-value surplus into a primary source for clean transportation fuels and petrochemical feedstocks.

The future development of Resid Hydrotreating Catalysts will be closely aligned with the challenges of processing increasingly inferior feedstocks and the imperative to enhance refinery profitability. Confronted with heavy oil resources characterized by rising metal content and carbon residue, catalysts must achieve breakthroughs in support structure and active phase design—such as employing gradient pore structures to manage diffusion limitations or developing composite supports with high metal tolerance—to balance the complexities of asphaltene cracking and metal deposition. Extending operational cycle length will no longer rely solely on improving catalyst longevity but will also require optimizing grading strategies, incorporating anti-coking additives, and integrating with reactor flow field design to push continuous unit operation from two years toward four or more. Concurrently, the trend toward process integration is becoming more pronounced, necessitating catalyst development that balances hydrodesulfurization with controlled cracking functionality to provide more suitable feed for downstream fluid catalytic cracking or hydrocracking units, thereby maximizing overall light product yield. Against the backdrop of the low-carbon transition, reducing hydrogen consumption, adapting to renewable hydrogen sources, and enabling the green recovery of critical metals like molybdenum and nickel from spent catalysts will also become key dimensions of technological competitiveness. These shifts ultimately point toward a transition from "standalone catalyst products" to "integrated solutions," where the use of digital tools for catalyst performance prediction and dynamic process optimization will form the core barrier to entry for industry leaders.

This report is a detailed and comprehensive analysis for global Resid 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 Resid Hydrotreating Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global Resid Hydrotreating Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Resid 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 Resid 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 JGC Group, W.R. Grace, ART Hydroprocessing, Axens, Topsoe, BASF, Shell, Albemarle, Honeywell UOP, Johnson Matthey, etc.

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

Market Segmentation

Resid 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

RUF Series

RHT Series

FZC Series

FE Series

Others

Market segment by Catalytic Purpose

Hydrodesulfurization (HDS)

Hydrodemetallization (HDM)

Others

Market segment by Raw Material Fraction

Vacuum Residue Hydrotreating Catalyst

Atmospheric Residue Hydrotreating Catalyst

Market segment by Application

Fixed-bed Resid Service

Vacuum Gas Oil (VGO) Hydrotreating

Others

Major players covered

JGC Group

W.R. Grace

ART Hydroprocessing

Axens

Topsoe

BASF

Shell

Albemarle

Honeywell UOP

Johnson Matthey

Nippon Ketjen

Sinopec

CNPC

Shandong Gongquan Chemical

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:

Global Resid Hydrotreating Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2...

Chapter 1, to describe Resid Hydrotreating Catalyst product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Resid 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 Resid 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 Resid Hydrotreating Catalyst.

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

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