

Global Resid Hydrotreating Catalyst Market Growth 2026-2032

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Abstracts

The global Resid Hydrotreating Catalyst market size is predicted to grow from US\$ 421 million in 2025 to US\$ 505 million in 2032; it is expected to grow at a CAGR of 2.7% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Resid Hydrotreating Catalyst Industry Forecast" looks at past sales and reviews total world Resid Hydrotreating Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected Resid Hydrotreating Catalyst sales for 2026 through 2032. With Resid Hydrotreating Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Resid Hydrotreating Catalyst industry.

This Insight Report provides a comprehensive analysis of the global Resid Hydrotreating Catalyst landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Resid Hydrotreating Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Resid Hydrotreating Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Resid Hydrotreating Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Resid Hydrotreating Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of Resid Hydrotreating Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

RUF Series

RHT Series

FZC Series

FE Series

Others

Segmentation by Catalytic Purpose:

Hydrodesulfurization (HDS)

Hydrodemetallization (HDM)

Others

Segmentation by Raw Material Fraction:

Vacuum Residue Hydrotreating Catalyst

Atmospheric Residue Hydrotreating Catalyst

Segmentation by Application:

Fixed-bed Resid Service

Vacuum Gas Oil (VGO) Hydrotreating

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

JGC Group

W.R. Grace

ART Hydroprocessing

Axens

Topsoe

BASF

Shell

Albemarle

Honeywell UOP

Johnson Matthey

Nippon Ketjen

Sinopec

CNPC

Shandong Gongquan Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Resid Hydrotreating Catalyst market?

What factors are driving Resid Hydrotreating Catalyst market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Resid Hydrotreating Catalyst market opportunities vary by end market size?

How does Resid Hydrotreating Catalyst break out by Type, by Application?

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