

# Global Resid Hydrotreating Catalyst Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Resid Hydrotreating Catalyst market size is expected to reach \$ 526 million by 2032, rising at a market growth of 2.5% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Resid Hydrotreating 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 Resid Hydrotreating Catalyst that contribute to its increasing demand across many markets.

## Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Resid Hydrotreating 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Resid Hydrotreating Catalyst market

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Resid Hydrotreating Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Resid Hydrotreating Catalyst Market, Segmentation by Type:

RUF Series

RHT Series

FZC Series

FE Series

Others

#### Global Resid Hydrotreating Catalyst Market, Segmentation by Catalytic Purpose:

Hydrodesulfurization (HDS)

Hydrodemetallization (HDM)

Others

#### Global Resid Hydrotreating Catalyst Market, Segmentation by Raw Material Fraction:

Vacuum Residue Hydrotreating Catalyst

Atmospheric Residue Hydrotreating Catalyst

#### Global Resid Hydrotreating Catalyst Market, Segmentation by Application:

Fixed-bed Resid Service

Vacuum Gas Oil (VGO) Hydrotreating

Others

#### Companies Profiled:

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 Answered:**

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

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