

Global Residue Hydrogenation Catalysts Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Residue Hydrogenation Catalysts market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Residue hydrogenation catalysts are specialized materials used in the petroleum refining process to upgrade heavy oil fractions such as vacuum or atmospheric residues. These catalysts facilitate the hydrogenation of hydrocarbons, reducing impurities like sulfur, nitrogen, and metals while improving the hydrogen-to-carbon ratio of the feedstock. Typically composed of transition metals like molybdenum, tungsten, nickel, or cobalt, supported on materials like alumina, these catalysts enable the production of lighter, more valuable hydrocarbon products, such as diesel or naphtha, while also enhancing the stability and quality of the residual feed. They play a critical role in residue hydroprocessing by improving both fuel quality and refinery efficiency.

This report is a detailed and comprehensive analysis for global Residue Hydrogenation Catalysts 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 Residue Hydrogenation Catalysts market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Residue Hydrogenation Catalysts market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Residue Hydrogenation Catalysts market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Residue Hydrogenation Catalysts market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Residue Hydrogenation Catalysts
- 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 Residue Hydrogenation Catalysts 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 ART Hydroprocessing, Axens, Topsoe, BASF, Shell, Albemarle, Honeywell UOP, Johnson Matthey, Nippon Ketjen, Sinopec, etc.

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

Market Segmentation

Residue Hydrogenation Catalysts market is split by Type and by Application. For the period 2020-2031, 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

Hydrodesulfurization (HDS)

Hydrodemetallization (HDM)

Others

Market segment by Application

Vacuum Residue

Atmospheric Residue

Major players covered

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:

Chapter 1, to describe Residue Hydrogenation Catalysts product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Residue Hydrogenation Catalysts, with price, sales quantity, revenue, and global market share of Residue Hydrogenation Catalysts from 2020 to 2025.

Chapter 3, the Residue Hydrogenation Catalysts competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Residue Hydrogenation Catalysts breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Residue Hydrogenation Catalysts market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Residue Hydrogenation Catalysts.

Chapter 14 and 15, to describe Residue Hydrogenation Catalysts sales channel,

distributors, customers, research findings and conclusion.

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