

Refinery Catalysts Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview 2023-2028:

The global refinery catalysts market size reached US\$ 5.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.2 Billion by 2028, exhibiting a growth rate (CAGR) of 3.7% during 2023-2028.

Refinery catalysts refer to various chemical substances that are used for converting petroleum refinery naphtha into high-octane liquid products or reformats. It uses platinum catalysts for treating petroleum, crude oil and gasoline to alter the rate of chemical reactions and enhance the quality of the end product. It is also used for converting low octane hydrocarbons into cyclic naphthalene and other branched alkanes. Some of the commonly used refinery catalysts include fluid catalytic cracking, hydrotreating, hydrocracking, alkylation, reforming, isomerization and enzyme-based catalysts. They aid in countering metal contamination and heat balance effect in tight oil processing.

Significant growth in the oil and gas industry across the globe is one of the key factors creating a positive outlook for the market. Furthermore, the rising demand for cleaner petroleum derivatives is contributing to the market growth. In line with this, the increasing adoption of zeolites as an effective refinery catalyst is also driving the market further. They are commonly used in fluid catalytic cracking (FCC) processes, owing to their advantageous properties, such as micro-porosity and adjustable acidity and aid in converting feeds, such as cracked and de-asphalted gas oils and vacuum resins, to high-value products. Additionally, widespread product adoption by the aerospace industry is acting as another growth-inducing factor. Refinery catalysts are used for

processing jet fuels, kerosene, hydro wax and ultra-low sulfur diesel (ULSD) as a petroleum derivative. Other factors, including the increasing demand for petroleum products for industrial power generation, along with the implementation of favorable government policies promoting the usage of these catalysts for reducing toxic pollutants and smog-formation in the air.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global refinery catalysts market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on type and material.

Breakup by Type:

Fluid Catalytic Cracking (FCC) Catalysts

Hydro-processing Catalysts

Hydrotreating Catalysts

Hydrocracking Catalysts

Catalytic Reforming Catalysts

Others

Breakup by Material:

Zeolites

Natural Zeolites

Synthetic Zeolites

Metals

Rare Earth Metals

Transition & Base Metals

Chemical Compounds

Sulphuric Acid & Hydrofluoric Acid

Calcium Carbonate

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Albemarle Corporation, Axens, BASF SE, Chevron Corporation, Clariant AG, DuPont, Evonik Industries AG (RAG-Stiftung), Exxon Mobil Corporation, Haldor Topsoe A/S, Honeywell International Inc, JGC C & C, Johnson Matthey and Royal Dutch Shell Plc.

Key Questions Answered in This Report:

How has the global refinery catalysts market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global refinery catalysts market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the material?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global refinery catalysts market and who are the key players?

What is the degree of competition in the industry?

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