

Catalyst market by Type (Zeolites, Chemical Compounds), Application (Petroleum Refining, Chemical Synthesis, Polymer Catalysis and Environmental) - Global Opportunity Analysis and Industry Forecast, 2014 - 2022

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Abstracts

Catalysts are substances that accelerate the rate of chemical reaction by lowering the activation energy of the process. They are either homogeneous or heterogeneous, depending upon the phase of the reaction. In homogeneous catalysis, the catalyst and the reaction medium are in same phase, mostly liquid or gas; whereas heterogeneous catalysis involves the use of solid catalysts either in a liquid or gas phase. Various catalysts available in the market include zeolites, enzymes, chemical compounds, and metals that are used in industries such as automotive, industrial reactions, oil & gas, construction, and others. They are used for various applications such as petroleum refining, chemical synthesis, polymer catalysis, and environmental applications. In the year 2015, the global catalysts market accounted for \$28,567 million, and is estimated to grow at a CAGR of 4.8% from 2016 to 2022.

Macroeconomic trends such as global population growth coupled with surging economic growth in emerging economies, stringent environmental legislation regarding automotive emissions, and increase in number of applications in end user industries are the factors that drive the market growth. However, restricted development and distribution of new catalysts hinder the market growth. Development of biochemicals through catalysis presents new opportunities for future growth.

Based on the catalyst type, the market is segmented into zeolites, metal, chemical compounds, enzymes, and organometallic materials. By application, it is divided into petroleum refining, chemical synthesis, polymer catalysis, and environmental & others. Petroleum refining is further segmented as fluid catalytic cracking (FCC), alkylation catalysts, hydroprocessing catalysts, and catalytic reforming. By chemical synthesis, the

market is further classified as polyolefins, catalytic oxidation, and hydrogenation catalysts; polymer catalysis into Ziegler–Natta, reaction initiator, and single-site; and environmental into light-duty vehicles, and heavy-duty vehicles.

By geography, the market is segmented into North America, Europe, Asia-Pacific, and LAMEA. In the year 2015, Asia-Pacific occupied the largest share, with China and India being the major contributors. This was attributed to the increase in demand for integration of emission-controlled catalyst in the automotive industry and low labor cost. Major companies have adopted agreement, product launches, expansions, mergers, and agreements to sustain the intense competition in this market. The key players profiled in the report include:

BASF SE

Albemarle Corporation

Johnson Matthey PLC

Evonik Industries AG

Dow Chemicals Company

Clariant AG

Dorf Ketal Chemicals Llc

W.R. Grace & Company

Chevron Phillips Chemical Company LP

Exxon Mobil Corporation

KEY BENEFITS

This report provides an extensive analysis of the current trends and emerging estimations & dynamics in the catalysts market.

In-depth analysis is conducted by catalysts market estimations for key segments during the forecast period.

Competitive intelligence (of leading manufacturers and distributors of catalysts) assists in understanding the competitive scenario across the geographies.

Comprehensive analysis of factors that drive and restrain the growth of the global catalysts market is provided.

Extensive analysis of the catalysts market is conducted by following key product positioning and monitoring the top competitors within the market framework.

Key market players are profiled and their strategies are analyzed thoroughly, which provide a competitive outlook of the market.

KEY MARKET SEGMENTS

By Type

Zeolites

LTA

FAU

MFI

Others

Metals

Base Metals

Precious Metals

Chemical Compounds

Acids

Amines

Peroxides

Other Chemicals

Enzymes

Organometallic Materials

By Application

Petroleum Refining

Fluid Catalytic Cracking (FCC)

Alkylation Catalysts

Hydroprocessing Catalysts

Catalytic Reforming

Others

Chemical Synthesis

Polyolefins

Catalytic Oxidation

Hydrogenation Catalysts

Others

Polymer Catalysis

Ziegler–Natta

Reaction Initiator

Single-siteOthers

Environmental

Light-duty Vehicles

Heavy-duty Vehicles

Others

By Geography

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Rest of Asia-Pacific

LAMEA

Brazil

Egypt

South Africa

Rest of LAMEA

Other players in the value chain include

Borealis AG

Sinopec Corp.

Royal Dutch Shell PLC

Honeywell International Incorporated

Total SA

CRI Catalyst Company

Zeolyst International Inc.

Profiles of these players are not included. The same will be included on request

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Total SA

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