

Catalyst Market Size, Share, Trends and Forecast by Type, Process, Raw Material, Application, and Region, 2025-2033

Market Report | 2025-04-01 | 143 pages | IMARC Group

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Report description:

The global catalyst market size was valued at USD 41.46 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 58.68 Billion by 2033, exhibiting a CAGR of 3.74% during 2025-2033. Asia-Pacific currently dominates the market, holding a significant market share of 49.1% in 2024. Rapid industrialization and strong demand from sectors like automotive, chemicals, and petrochemicals, is strengthening the market growth. The catalyst market share is increasing in countries like China, India, and Japan due to growing usage in emission control, refining, and energy-efficient processes. Besides this, supportive government policies and investments in sustainability further fuels market growth.

Catalysts are substances that are deployed in small quantities to alter and stimulate the speed of chemical reactions by lowering and raising the activation energy required for the procedure. They can be reused post-treatment and do not undergo any thermodynamic changes during reactions. Catalysts assists in transforming raw materials into various useful manufactured products, enhancing air quality by controlling emissions, developing catalytic solutions to exchange chlorine-based intermediate for chemical synthesis, mitigating volatile organic compounds (VOCs), and removing massive waste compounds. Based on these properties, they find extensive applications in chemical synthesis, petroleum refining, petrochemical formulation, and polymer catalysis. At present, they are mainly available in zeolites, metals, chemical compounds, enzymes, and organometallic material types.

Catalyst Market Trends:

The rapid expansion in the chemical and polymer manufacturing sectors and the ongoing establishment of petrol refining capacities have facilitated the widespread adoption of catalysts for chemical process optimization and improved product yield. This represents the major factor driving the market growth. In line with this, the implementation of green initiatives by governments, owing to rising environmental concerns, has prompted original equipment manufacturers (OEMs) to incorporate multiple catalysts, such as platinum, palladium, and rhodium in automobiles, which is acting as another growth-inducing factor. These solutions assist in mitigating nitrogen oxides (NOx), sulfur oxides (SOx), and carbon emissions. Additionally, the extensive

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utilization of catalysts to convert bio-derived feedstock into industry-relevant chemicals is supplementing the product demand. Moreover, the increasing refining of methanol and polyolefins and the escalating need for petroleum-based products has intensified the uptake of industrial catalyst to design petroleum-based consumer goods, which is propelling the market growth. Apart from this, the extensive product employment to produce biochemicals and significant investments in research and development (R&D) activities to enhance catalyst efficiency are positively augmenting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global catalyst market, along with forecasts at the global, regional, and country levels from 2025-2033. The market has been categorized based on type, process, raw material, and application.

Breakup by Type:

- Heterogeneous Catalyst
- Homogeneous Catalyst

Breakup by Process:

- Recycling
- Regeneration
- Rejuvenation

Breakup by Raw Material:

- Chemical Compounds
- Peroxides
- Acids
- Amines
- Others
- Metals
- Precious Metals
- Base Metals
- Zeolites
- Others

Breakup by Application:

- Chemical Synthesis
- Chemical Catalysts
- Adsorbents
- Syngas Production
- Others
- Petroleum Refining
- Fluid Catalytic Cracking (FCC)
- Alkylation
- Hydrotreating
- Catalytic Reforming

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- Purification
- Bed Grading
- Others
- Polymers and Petrochemicals
- Ziegler Natta
- Reaction Initiator
- Chromium
- Urethane
- Solid Phosphorous Acid Catalyst
- Others
- Environmental
- Light-duty Vehicles
- Motorcycles
- Heavy-duty Vehicles
- Others

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 competitive landscape of the industry has also been examined along with the profiles of the key players being Albemarle Corporation, Arkema S.A., Axens SA, BASF SE, Chevron Phillips Chemical Company LLC, Clariant AG, Dow Inc., Evonik Industries AG, Exxon Mobil Corporation, Honeywell International Inc., Johnson Matthey, Shell plc, W. R. Grace and Co. (Standard Industries

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Inc.) and Zeolyst International Inc.

Key Questions Answered in This Report

- 1.How big is the catalyst market?
- 2.What is the future outlook of catalyst market?
- 3.What are the key factors driving the catalyst market?
- 4.Which region accounts for the largest catalyst market share?
- 5.Which are the leading companies in the global catalyst market?

Table of Contents:

- ?1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Catalyst Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Type
 - 6.1 Heterogeneous Catalyst
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Homogeneous Catalyst
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 7 Market Breakup by Process
 - 7.1 Recycling
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Regeneration
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Rejuvenation
 - 7.3.1 Market Trends

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- 7.3.2 Market Forecast
- 8 Market Breakup by Raw Material
 - 8.1 Chemical Compounds
 - 8.1.1 Market Trends
 - 8.1.2 Key Segments
 - 8.1.2.1 Peroxides
 - 8.1.2.2 Acids
 - 8.1.2.3 Amines
 - 8.1.2.4 Others
 - 8.1.3 Market Forecast
 - 8.2 Metals
 - 8.2.1 Market Trends
 - 8.2.2 Key Segments
 - 8.2.2.1 Precious Metals
 - 8.2.2.2 Base Metals
 - 8.2.3 Market Forecast
 - 8.3 Zeolites
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
 - 8.4 Others
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 9 Market Breakup by Application
 - 9.1 Chemical Synthesis
 - 9.1.1 Market Trends
 - 9.1.2 Key Segments
 - 9.1.2.1 Chemical Catalysts
 - 9.1.2.2 Adsorbents
 - 9.1.2.3 Syngas Production
 - 9.1.2.4 Others
 - 9.1.3 Market Forecast
 - 9.2 Petroleum Refining
 - 9.2.1 Market Trends
 - 9.2.2 Key Segments
 - 9.2.2.1 Fluid Catalytic Cracking (FCC)
 - 9.2.2.2 Alkylation
 - 9.2.2.3 Hydrotreating
 - 9.2.2.4 Catalytic Reforming
 - 9.2.2.5 Purification
 - 9.2.2.6 Bed Grading
 - 9.2.2.7 Others
 - 9.2.3 Market Forecast
 - 9.3 Polymers and Petrochemicals
 - 9.3.1 Market Trends
 - 9.3.2 Key Segments
 - 9.3.2.1 Ziegler Natta
 - 9.3.2.2 Reaction Initiator

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- 9.3.2.3 Chromium
- 9.3.2.4 Urethane
- 9.3.2.5 Solid Phosphorous Acid Catalyst
- 9.3.2.6 Others
- 9.3.3 Market Forecast
- 9.4 Environmental
 - 9.4.1 Market Trends
 - 9.4.2 Key Segments
 - 9.4.2.1 Light-duty Vehicles
 - 9.4.2.2 Motorcycles
 - 9.4.2.3 Heavy-duty Vehicles
 - 9.4.2.4 Others
 - 9.4.3 Market Forecast
- 10 Market Breakup by Region
 - 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
 - 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
 - 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast

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- 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
- 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast
- 11 SWOT Analysis
 - 11.1 Overview
 - 11.2 Strengths
 - 11.3 Weaknesses
 - 11.4 Opportunities
 - 11.5 Threats
- 12 Value Chain Analysis
- 13 Porters Five Forces Analysis
 - 13.1 Overview
 - 13.2 Bargaining Power of Buyers
 - 13.3 Bargaining Power of Suppliers
 - 13.4 Degree of Competition
 - 13.5 Threat of New Entrants
 - 13.6 Threat of Substitutes
- 14 Price Analysis

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- 15 Competitive Landscape
 - 15.1 Market Structure
 - 15.2 Key Players
 - 15.3 Profiles of Key Players
 - 15.3.1 Albemarle Corporation
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis
 - 15.3.2 Arkema S.A.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.2.4 SWOT Analysis
 - 15.3.3 Axens SA
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.4 BASF SE
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 Chevron Phillips Chemical Company LLC
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 SWOT Analysis
 - 15.3.6 Clariant AG
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.7 Dow Inc.
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
 - 15.3.8 Evonik Industries AG
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
 - 15.3.9 Exxon Mobil Corporation
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
 - 15.3.10 Honeywell International Inc.
 - 15.3.10.1 Company Overview

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- 15.3.10.2 Product Portfolio
- 15.3.10.3 Financials
- 15.3.10.4 SWOT Analysis
- 15.3.11 Johnson Matthey
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials
 - 15.3.11.4 SWOT Analysis
- 15.3.12 Shell plc
 - 15.3.12.1 Company Overview
 - 15.3.12.2 Product Portfolio
 - 15.3.12.3 Financials
- 15.3.13 W. R. Grace and Co. (Standard Industries Inc.)
 - 15.3.13.1 Company Overview
 - 15.3.13.2 Product Portfolio
 - 15.3.13.3 SWOT Analysis
- 15.3.14 Zeolyst International Inc.
 - 15.3.14.1 Company Overview
 - 15.3.14.2 Product Portfolio

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