

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

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Abstracts

The global autocatalyst market size reached US\$ 12.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 15.9 Billion by 2028, exhibiting a growth rate (CAGR) of 3.7% during 2022-2028.

An autocatalyst is made by converting ceramics or metals into a fine honeycomb structure and coating it with a solution of platinum, rhodium, and palladium. It is usually installed in the exhaust system of vehicles to help transform toxic substances like hydrocarbon, nitrogen oxide and carbon monoxide into harmless nitrogen, water, and carbon dioxide. Nowadays, three-way catalysts are gaining traction as advanced systems for the emission treatment of gasoline vehicles. These catalysts comprise ultra-thin and high cell substrates that operate at low temperatures to eliminate toxic substances from vehicle ignition efficiently.

Autocatalyst Market Trends:

Vehicular emissions are highly harmful to the environment and human health as they can lead to acidic rain and a rise in global temperature, skin irritation, and respiratory issues. In line with this, the continual increase in the sales of vehicles and consequent surge in gas emissions have compelled governing agencies of numerous countries to implement stringent laws concerning automobile emissions. This represents one of the key factors positively influencing the demand for autocatalysts across the globe to eliminate particulate and atmospheric matter. Apart from this, due to rising environmental concerns, the leading manufacturers are adopting recycling methods and sustainable manufacturing processes. They are also investing in new technologies to improve the functions of autocatalysts, which is anticipated to propel the growth of the market. For instance, they are using nanotechnology or alumina thin films at high temperatures as sol-gel technology to improve precious metals distribution and contain gaseous emissions.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global autocatalyst market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on material, catalyst type, distribution channel, vehicle type and fuel type.

Breakup by Material:

Platinum

Palladium

Rhodium

Others

Breakup by Catalyst Type:

Two-way

Three-way

Four-way

Breakup by Distribution Channel:

OEM

Aftermarket

Breakup by Vehicle Type:

Passenger Car

Light Commercial Vehicle

Heavy Commercial Vehicle

Others

Breakup by Fuel Type:

Gasoline

Diesel

Hybrid Fuels

Hydrogen Fuel Cell

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 BASF SE, Cataler Corporation (Toyota Motor Corporation), Corning Incorporated, Cummins Inc., DCL International Inc, Faurecia, Heraeus Holding, Ividen Co. Ltd., Solvay and Tenneco Inc.

Key Questions Answered in This Report

1. How big is the global autocatalyst market?
2. What is the expected growth rate of the global autocatalyst market during 2023-2028?
3. What are the key factors driving the global autocatalyst market?
4. What has been the impact of COVID-19 on the global autocatalyst market?
5. What is the breakup of the global autocatalyst market based on the material?
6. What is the breakup of the global autocatalyst market based on the catalyst type?
7. What is the breakup of the global autocatalyst market based on the distribution channel?
8. What is the breakup of the global autocatalyst market based on the vehicle type?
9. What is the breakup of the global autocatalyst market based on the fuel type?
10. What are the key regions in the global autocatalyst market?
11. Who are the key players/companies in the global autocatalyst market?

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