

Global Automotive Catalyst Market Size Study & Forecast, by Type and Vehicle Type, and Regional Forecasts 2025-2035

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Abstracts

The Global Automotive Catalyst Market was valued at approximately USD 16.58 billion in 2024 and is projected to grow at a compound annual growth rate (CAGR) of over 5.00% during the forecast period from 2025 to 2035. Automotive catalysts, often crafted using precious metals like platinum, palladium, and rhodium, are pivotal components in the reduction of harmful emissions from internal combustion engine vehicles. As the world grapples with intensifying concerns over environmental degradation and governments continue tightening emission norms, the demand for efficient catalytic converters is being pushed to unprecedented levels. These catalysts are engineered to convert harmful gases such as carbon monoxide, hydrocarbons, and nitrogen oxides into less-toxic substances, ensuring regulatory compliance and cleaner air. This ongoing shift towards sustainable vehicular technology, alongside surging automotive production across emerging economies, is shaping the lucrative trajectory of the automotive catalyst industry.

The evolution of catalyst technologies is further propelled by escalating investments in research and development by key industry players, who aim to improve catalyst longevity and efficiency while minimizing the content of rare metals used. In light-duty and heavy-duty vehicle segments alike, catalysts are witnessing consistent adoption, fueled by a rising preference for fuel-efficient and low-emission transport solutions. Notably, the surging demand for gasoline-powered vehicles, particularly in urban settings, has spurred the growth of palladium-based catalysts, while diesel engine vehicles, prevalent in logistics and heavy-duty sectors, continue to rely heavily on platinum and rhodium-based systems. Additionally, the rapid electrification of the automotive industry hasn't completely offset the demand for these emission-control technologies, as hybrid vehicles and plug-in hybrid electric vehicles (PHEVs) still

incorporate internal combustion components that necessitate catalytic support.

From a regional standpoint, North America is poised to maintain its dominance in the global automotive catalyst market during the early phase of the forecast period, largely attributed to its strong regulatory framework led by the Environmental Protection Agency (EPA), mature automobile industry, and high vehicle ownership rates. Europe follows closely, driven by the European Union's ambitious carbon neutrality targets and stringent vehicle emission legislations like Euro 6 and the upcoming Euro 7 standards. Meanwhile, Asia Pacific is projected to exhibit the fastest CAGR during the forecast window, underpinned by burgeoning automotive production hubs in China, India, and South Korea. The growing urban population, rising disposable incomes, and increasing adoption of personal vehicles are also intensifying the regional demand. Furthermore, governmental policies mandating the installation of emission-control systems in both new and existing vehicles are providing significant tailwinds to the market expansion in these regions.

Major market player included in this report are:

BASF SE

Johnson Matthey

Umicore

Heraeus Holding

Tenneco Inc.

Corning Incorporated

Cataler Corporation

CDTi Advanced Materials, Inc.

Eberspacher Group

Toyota Motor Corporation

Magneti Marelli S.p.A

Hitachi Zosen Corporation

Faurecia

NGK Insulators, Ltd.

Denso Corporation

Global Automotive Catalyst Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Type:

Platinum

Palladium

Rhodium

By Vehicle Type:

Light-Duty Vehicles

Heavy-Duty Vehicles

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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