

Global Passenger Vehicles Emission Control Catalyst Market Growth 2026-2032

<https://marketpublishers.com/r/GCBEFE94013DEN.html>

Date: May 2026

Pages: 121

Price: US\$ 3,660.00 (Single User License)

ID: GCBEFE94013DEN

Abstracts

The global Passenger Vehicles Emission Control Catalyst market size is predicted to grow from US\$ 21600 million in 2025 to US\$ 31054 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Passenger Vehicles Emission Control Catalyst is a high-efficiency, miniaturized and low-cost catalytic material customized for the exhaust characteristics of passenger vehicles (including cars, SUVs, MPVs and light passenger cars) with small-to-medium displacement, intermittent working conditions and gasoline-dominated power systems. As the core functional component of passenger vehicle exhaust aftertreatment systems, it is mainly composed of precious metal active components (Pt/Pd/Rh), cordierite ceramic carriers and high-specific-surface-area coating materials. Aiming at CO, HC and NO_x in the exhaust gas generated by passenger vehicle engines under cold start, idling, acceleration and deceleration conditions, it triggers rapid redox reactions in a narrow temperature window (250°C~450°C) to purify three major pollutants at the same time, and cooperates with GPF (Gasoline Particulate Filter) to capture particulate matter, ensuring that passenger vehicle exhaust emissions meet strict national and international emission standards (such as China VI, Euro VI, US EPA Tier 3). Passenger vehicle emission control catalysts are priced tiered by supporting scenarios and integrated forms, with significant differences in bulk supply prices: basic Three-Way Catalysts (TWC) complying with China VIb/Euro 6d standards cost \$60-150 per unit; special TWCs for hybrid models, with optimized precious metal ratios, are priced at \$80-200 per unit; the mainstream integrated TWC+GPF models, the standard configuration for passenger cars, cost \$120-280 per unit; aftermarket replacement versions, low-cost and low-precious metal variants, are only \$30-80 per unit. Precious metal loading and integration processes are the core pricing factors.

The industrial chain features a global collaborative structure, with core barriers in precious metal formulations and coating technologies. Upstream covers Pd/Rh/Pt precious metals, cordierite ceramic carriers and rare earth coating materials, with Johnson Matthey, BASF and Umicore as key suppliers. Precious metals account for over 60% of the total cost, and domestic enterprises mainly supply recycled precious metals. Midstream focuses on catalyst preparation and integration. The core barriers lie in precious metal-saving formulations, fast light-off coating technologies and TWC+GPF integrated processes. Downstream includes passenger car OEMs like Volkswagen, Toyota and Geely, as well as auto parts aftermarket channels. The upgrade of China VI standards and the penetration of hybrid models drive the supporting demand for products.

United States market for Passenger Vehicles Emission Control Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Passenger Vehicles Emission Control Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Passenger Vehicles Emission Control Catalyst is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Passenger Vehicles Emission Control Catalyst players cover BASF SE, Umicore, Johnson Matthey, Tenneco, FORVIA Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Passenger Vehicles Emission Control Catalyst Industry Forecast" looks at past sales and reviews total world Passenger Vehicles Emission Control Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected Passenger Vehicles Emission Control Catalyst sales for 2026 through 2032. With Passenger Vehicles Emission Control Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Passenger Vehicles Emission Control Catalyst industry.

This Insight Report provides a comprehensive analysis of the global Passenger Vehicles Emission Control Catalyst landscape and highlights key trends related to

product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Passenger Vehicles Emission Control Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Passenger Vehicles Emission Control Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Passenger Vehicles Emission Control Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Passenger Vehicles Emission Control Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of Passenger Vehicles Emission Control Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Three-Way Catalyst (TWC)

Diesel Oxidation Catalyst (DOC)

Selective Catalytic Reduction (SCR)

Others

Segmentation by Carrier Form:

Honeycomb Ceramic Carrier Catalyst

Metal Carrier Catalyst

Granular Carrier Catalyst

Segmentation by Precious Metal Content:

Precious Metal Catalyst

Non-precious Metal Catalyst

Segmentation by Application:

Sedan

MPV

SUV

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF SE

Umicore

Johnson Matthey

Tenneco

FORVIA Group

Eberspcher

Cummins

Clariant

Klarius Products

Ecocat India Pvt

CDTi Advanced Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Passenger Vehicles Emission Control Catalyst market?

What factors are driving Passenger Vehicles Emission Control Catalyst market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Passenger Vehicles Emission Control Catalyst market opportunities vary by end market size?

How does Passenger Vehicles Emission Control Catalyst break out by Type, by Application?

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