

Global Passenger Vehicles Emission Control Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Passenger Vehicles Emission Control Catalyst market size was valued at US\$ 22719 million in 2025 and is forecast to a readjusted size of US\$ 32088 million by 2032 with a CAGR of 5.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Passenger Vehicles Emission Control Catalyst market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Passenger Vehicles Emission Control Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Passenger Vehicles Emission Control Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Passenger Vehicles Emission Control Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Passenger Vehicles Emission Control Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Passenger Vehicles Emission Control Catalyst
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Passenger Vehicles Emission Control Catalyst market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF SE, Umicore, Johnson Matthey, Tenneco, FORVIA Group, Eberspacher, Cummins, Clariant, Klarius Products, Ecocat India Pvt, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Passenger Vehicles Emission Control Catalyst market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Three-Way Catalyst (TWC)
- Diesel Oxidation Catalyst (DOC)
- Selective Catalytic Reduction (SCR)
- Others

Market segment by Carrier Form

- Honeycomb Ceramic Carrier Catalyst

Metal Carrier Catalyst

Granular Carrier Catalyst

Market segment by Precious Metal Content

Precious Metal Catalyst

Non-precious Metal Catalyst

Market segment by Application

Sedan

MPV

SUV

Others

Major players covered

BASF SE

Umicore

Johnson Matthey

Tenneco

FORVIA Group

Eberspcher

Cummins

Clariant

Klarius Products

Ecocat India Pvt

CDTi Advanced Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Passenger Vehicles Emission Control Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Passenger Vehicles Emission Control Catalyst, with price, sales quantity, revenue, and global market share of Passenger Vehicles Emission Control Catalyst from 2021 to 2026.

Chapter 3, the Passenger Vehicles Emission Control Catalyst competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Passenger Vehicles Emission Control Catalyst breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth

by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Passenger Vehicles Emission Control Catalyst market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Passenger Vehicles Emission Control Catalyst.

Chapter 14 and 15, to describe Passenger Vehicles Emission Control Catalyst sales channel, distributors, customers, research findings and conclusion.

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