

# Global Passenger Vehicles Emission Control Catalyst Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Passenger Vehicles Emission Control Catalyst market size is expected to reach \$ 32088 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

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<sub>x</sub> 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 studies the global Passenger Vehicles Emission Control Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Passenger Vehicles Emission Control Catalyst and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Passenger Vehicles Emission Control Catalyst that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Passenger Vehicles Emission Control Catalyst total production and demand, 2021-2032, (K Units)

Global Passenger Vehicles Emission Control Catalyst total production value, 2021-2032, (USD Million)

Global Passenger Vehicles Emission Control Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Passenger Vehicles Emission Control Catalyst consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Passenger Vehicles Emission Control Catalyst domestic production, consumption, key domestic manufacturers and share

Global Passenger Vehicles Emission Control Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Passenger Vehicles Emission Control Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Passenger Vehicles Emission Control Catalyst production by Application,

production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Passenger Vehicles Emission Control Catalyst market based on the following parameters - company overview, production, value, 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, Eberspcher, Cummins, Clariant, Klarius Products, Ecocat India Pvt, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Passenger Vehicles Emission Control Catalyst market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Passenger Vehicles Emission Control Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Passenger Vehicles Emission Control Catalyst Market, Segmentation by Type:

Three-Way Catalyst (TWC)

Diesel Oxidation Catalyst (DOC)

Selective Catalytic Reduction (SCR)

Others

Global Passenger Vehicles Emission Control Catalyst Market, Segmentation by Carrier Form:

Honeycomb Ceramic Carrier Catalyst

Metal Carrier Catalyst

Granular Carrier Catalyst

Global Passenger Vehicles Emission Control Catalyst Market, Segmentation by Precious Metal Content:

Precious Metal Catalyst

Non-precious Metal Catalyst

Global Passenger Vehicles Emission Control Catalyst Market, Segmentation by Application:

Sedan

MPV

SUV

Others

**Companies Profiled:**

BASF SE

Umicore

Johnson Matthey

Tenneco

FORVIA Group

Eberspcher

Cummins

Clariant

Klarius Products

Ecocat India Pvt

CDTi Advanced Materials

**Key Questions Answered:**

1. How big is the global Passenger Vehicles Emission Control Catalyst market?
2. What is the demand of the global Passenger Vehicles Emission Control Catalyst market?
3. What is the year over year growth of the global Passenger Vehicles Emission Control Catalyst market?
4. What is the production and production value of the global Passenger Vehicles Emission Control Catalyst market?
5. Who are the key producers in the global Passenger Vehicles Emission Control

Catalyst market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Passenger Vehicles Emission Control Catalyst Introduction
- 1.2 World Passenger Vehicles Emission Control Catalyst Supply & Forecast
  - 1.2.1 World Passenger Vehicles Emission Control Catalyst Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.2.3 World Passenger Vehicles Emission Control Catalyst Pricing Trends (2021-2032)
- 1.3 World Passenger Vehicles Emission Control Catalyst Production by Region (Based on Production Site)
  - 1.3.1 World Passenger Vehicles Emission Control Catalyst Production Value by Region (2021-2032)
  - 1.3.2 World Passenger Vehicles Emission Control Catalyst Production by Region (2021-2032)
  - 1.3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Region (2021-2032)
  - 1.3.4 North America Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.5 Europe Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.6 China Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.7 Japan Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.8 South Korea Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.9 India Passenger Vehicles Emission Control Catalyst Production (2021-2032)
  - 1.3.10 Mexico Passenger Vehicles Emission Control Catalyst Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Passenger Vehicles Emission Control Catalyst Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Passenger Vehicles Emission Control Catalyst Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Passenger Vehicles Emission Control Catalyst Demand (2021-2032)
- 2.2 World Passenger Vehicles Emission Control Catalyst Consumption by Region
  - 2.2.1 World Passenger Vehicles Emission Control Catalyst Consumption by Region (2021-2026)
  - 2.2.2 World Passenger Vehicles Emission Control Catalyst Consumption Forecast by

Region (2027-2032)

2.3 United States Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.4 China Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.5 Europe Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.6 Japan Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.7 South Korea Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.8 ASEAN Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

2.9 India Passenger Vehicles Emission Control Catalyst Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Passenger Vehicles Emission Control Catalyst Production Value by Manufacturer (2021-2026)

3.2 World Passenger Vehicles Emission Control Catalyst Production by Manufacturer (2021-2026)

3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Manufacturer (2021-2026)

3.4 Passenger Vehicles Emission Control Catalyst Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Passenger Vehicles Emission Control Catalyst Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Passenger Vehicles Emission Control Catalyst in 2025

3.5.3 Global Concentration Ratios (CR8) for Passenger Vehicles Emission Control Catalyst in 2025

3.6 Passenger Vehicles Emission Control Catalyst Market: Overall Company Footprint Analysis

3.6.1 Passenger Vehicles Emission Control Catalyst Market: Region Footprint

3.6.2 Passenger Vehicles Emission Control Catalyst Market: Company Product Type Footprint

3.6.3 Passenger Vehicles Emission Control Catalyst Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

### 3.9 Mergers, Acquisition, Agreements, and Collaborations

## 4 UNITED STATES VS CHINA VS REST OF THE WORLD

### 4.1 United States VS China: Passenger Vehicles Emission Control Catalyst Production Value Comparison

4.1.1 United States VS China: Passenger Vehicles Emission Control Catalyst Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Passenger Vehicles Emission Control Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Passenger Vehicles Emission Control Catalyst Production Comparison

4.2.1 United States VS China: Passenger Vehicles Emission Control Catalyst Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Passenger Vehicles Emission Control Catalyst Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Passenger Vehicles Emission Control Catalyst Consumption Comparison

4.3.1 United States VS China: Passenger Vehicles Emission Control Catalyst Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Passenger Vehicles Emission Control Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Passenger Vehicles Emission Control Catalyst Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value (2021-2026)

4.4.3 United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production (2021-2026)

### 4.5 China Based Passenger Vehicles Emission Control Catalyst Manufacturers and Market Share

4.5.1 China Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value (2021-2026)

4.5.3 China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production (2021-2026)

### 4.6 Rest of World Based Passenger Vehicles Emission Control Catalyst Manufacturers

and Market Share, 2021-2026

4.6.1 Rest of World Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Passenger Vehicles Emission Control Catalyst Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Three-Way Catalyst (TWC)

5.2.2 Diesel Oxidation Catalyst (DOC)

5.2.3 Selective Catalytic Reduction (SCR)

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Passenger Vehicles Emission Control Catalyst Production by Type (2021-2032)

5.3.2 World Passenger Vehicles Emission Control Catalyst Production Value by Type (2021-2032)

5.3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY CARRIER FORM**

6.1 World Passenger Vehicles Emission Control Catalyst Market Size Overview by Carrier Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Carrier Form

6.2.1 Honeycomb Ceramic Carrier Catalyst

6.2.2 Metal Carrier Catalyst

6.2.3 Granular Carrier Catalyst

6.3 Market Segment by Carrier Form

6.3.1 World Passenger Vehicles Emission Control Catalyst Production by Carrier Form (2021-2032)

6.3.2 World Passenger Vehicles Emission Control Catalyst Production Value by Carrier Form (2021-2032)

6.3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Carrier

Form (2021-2032)

## **7 MARKET ANALYSIS BY PRECIOUS METAL CONTENT**

7.1 World Passenger Vehicles Emission Control Catalyst Market Size Overview by Precious Metal Content: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Precious Metal Content

7.2.1 Precious Metal Catalyst

7.2.2 Non-precious Metal Catalyst

7.3 Market Segment by Precious Metal Content

7.3.1 World Passenger Vehicles Emission Control Catalyst Production by Precious Metal Content (2021-2032)

7.3.2 World Passenger Vehicles Emission Control Catalyst Production Value by Precious Metal Content (2021-2032)

7.3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Precious Metal Content (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Passenger Vehicles Emission Control Catalyst Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Sedan

8.2.2 MPV

8.2.3 SUV

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Passenger Vehicles Emission Control Catalyst Production by Application (2021-2032)

8.3.2 World Passenger Vehicles Emission Control Catalyst Production Value by Application (2021-2032)

8.3.3 World Passenger Vehicles Emission Control Catalyst Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 BASF SE

9.1.1 BASF SE Details

9.1.2 BASF SE Major Business

- 9.1.3 BASF SE Passenger Vehicles Emission Control Catalyst Product and Services
- 9.1.4 BASF SE Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 BASF SE Recent Developments/Updates
- 9.1.6 BASF SE Competitive Strengths & Weaknesses
- 9.2 Umicore
  - 9.2.1 Umicore Details
  - 9.2.2 Umicore Major Business
  - 9.2.3 Umicore Passenger Vehicles Emission Control Catalyst Product and Services
  - 9.2.4 Umicore Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Umicore Recent Developments/Updates
  - 9.2.6 Umicore Competitive Strengths & Weaknesses
- 9.3 Johnson Matthey
  - 9.3.1 Johnson Matthey Details
  - 9.3.2 Johnson Matthey Major Business
  - 9.3.3 Johnson Matthey Passenger Vehicles Emission Control Catalyst Product and Services
  - 9.3.4 Johnson Matthey Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Johnson Matthey Recent Developments/Updates
  - 9.3.6 Johnson Matthey Competitive Strengths & Weaknesses
- 9.4 Tenneco
  - 9.4.1 Tenneco Details
  - 9.4.2 Tenneco Major Business
  - 9.4.3 Tenneco Passenger Vehicles Emission Control Catalyst Product and Services
  - 9.4.4 Tenneco Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Tenneco Recent Developments/Updates
  - 9.4.6 Tenneco Competitive Strengths & Weaknesses
- 9.5 FORVIA Group
  - 9.5.1 FORVIA Group Details
  - 9.5.2 FORVIA Group Major Business
  - 9.5.3 FORVIA Group Passenger Vehicles Emission Control Catalyst Product and Services
  - 9.5.4 FORVIA Group Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 FORVIA Group Recent Developments/Updates
  - 9.5.6 FORVIA Group Competitive Strengths & Weaknesses

## 9.6 Eberspcher

### 9.6.1 Eberspcher Details

### 9.6.2 Eberspcher Major Business

### 9.6.3 Eberspcher Passenger Vehicles Emission Control Catalyst Product and Services

### 9.6.4 Eberspcher Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Eberspcher Recent Developments/Updates

### 9.6.6 Eberspcher Competitive Strengths & Weaknesses

## 9.7 Cummins

### 9.7.1 Cummins Details

### 9.7.2 Cummins Major Business

### 9.7.3 Cummins Passenger Vehicles Emission Control Catalyst Product and Services

### 9.7.4 Cummins Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 Cummins Recent Developments/Updates

### 9.7.6 Cummins Competitive Strengths & Weaknesses

## 9.8 Clariant

### 9.8.1 Clariant Details

### 9.8.2 Clariant Major Business

### 9.8.3 Clariant Passenger Vehicles Emission Control Catalyst Product and Services

### 9.8.4 Clariant Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.8.5 Clariant Recent Developments/Updates

### 9.8.6 Clariant Competitive Strengths & Weaknesses

## 9.9 Klarius Products

### 9.9.1 Klarius Products Details

### 9.9.2 Klarius Products Major Business

### 9.9.3 Klarius Products Passenger Vehicles Emission Control Catalyst Product and Services

### 9.9.4 Klarius Products Passenger Vehicles Emission Control Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.9.5 Klarius Products Recent Developments/Updates

### 9.9.6 Klarius Products Competitive Strengths & Weaknesses

## 9.10 Ecocat India Pvt

### 9.10.1 Ecocat India Pvt Details

### 9.10.2 Ecocat India Pvt Major Business

### 9.10.3 Ecocat India Pvt Passenger Vehicles Emission Control Catalyst Product and Services

### 9.10.4 Ecocat India Pvt Passenger Vehicles Emission Control Catalyst Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Ecocat India Pvt Recent Developments/Updates

9.10.6 Ecocat India Pvt Competitive Strengths & Weaknesses

9.11 CDTi Advanced Materials

9.11.1 CDTi Advanced Materials Details

9.11.2 CDTi Advanced Materials Major Business

9.11.3 CDTi Advanced Materials Passenger Vehicles Emission Control Catalyst

Product and Services

9.11.4 CDTi Advanced Materials Passenger Vehicles Emission Control Catalyst

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 CDTi Advanced Materials Recent Developments/Updates

9.11.6 CDTi Advanced Materials Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Passenger Vehicles Emission Control Catalyst Industry Chain

10.2 Passenger Vehicles Emission Control Catalyst Upstream Analysis

10.2.1 Passenger Vehicles Emission Control Catalyst Core Raw Materials

10.2.2 Main Manufacturers of Passenger Vehicles Emission Control Catalyst Core

Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Passenger Vehicles Emission Control Catalyst Production Mode

10.6 Passenger Vehicles Emission Control Catalyst Procurement Model

10.7 Passenger Vehicles Emission Control Catalyst Industry Sales Model and Sales Channels

10.7.1 Passenger Vehicles Emission Control Catalyst Sales Model

10.7.2 Passenger Vehicles Emission Control Catalyst Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Passenger Vehicles Emission Control Catalyst Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Passenger Vehicles Emission Control Catalyst Production Value by Region (2021-2026) & (USD Million)

Table 3. World Passenger Vehicles Emission Control Catalyst Production Value by Region (2027-2032) & (USD Million)

Table 4. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Region (2021-2026)

Table 5. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Region (2027-2032)

Table 6. World Passenger Vehicles Emission Control Catalyst Production by Region (2021-2026) & (K Units)

Table 7. World Passenger Vehicles Emission Control Catalyst Production by Region (2027-2032) & (K Units)

Table 8. World Passenger Vehicles Emission Control Catalyst Production Market Share by Region (2021-2026)

Table 9. World Passenger Vehicles Emission Control Catalyst Production Market Share by Region (2027-2032)

Table 10. World Passenger Vehicles Emission Control Catalyst Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Passenger Vehicles Emission Control Catalyst Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Passenger Vehicles Emission Control Catalyst Major Market Trends

Table 13. World Passenger Vehicles Emission Control Catalyst Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Passenger Vehicles Emission Control Catalyst Consumption by Region (2021-2026) & (K Units)

Table 15. World Passenger Vehicles Emission Control Catalyst Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Passenger Vehicles Emission Control Catalyst Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Passenger Vehicles Emission Control Catalyst Producers in 2025

Table 18. World Passenger Vehicles Emission Control Catalyst Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Passenger Vehicles Emission Control Catalyst Producers in 2025

Table 20. World Passenger Vehicles Emission Control Catalyst Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Passenger Vehicles Emission Control Catalyst Company Evaluation Quadrant

Table 22. World Passenger Vehicles Emission Control Catalyst Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Passenger Vehicles Emission Control Catalyst Production Site of Key Manufacturer

Table 24. Passenger Vehicles Emission Control Catalyst Market: Company Product Type Footprint

Table 25. Passenger Vehicles Emission Control Catalyst Market: Company Product Application Footprint

Table 26. Passenger Vehicles Emission Control Catalyst Competitive Factors

Table 27. Passenger Vehicles Emission Control Catalyst New Entrant and Capacity Expansion Plans

Table 28. Passenger Vehicles Emission Control Catalyst Mergers & Acquisitions Activity

Table 29. United States VS China Passenger Vehicles Emission Control Catalyst Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Passenger Vehicles Emission Control Catalyst Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Passenger Vehicles Emission Control Catalyst Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share (2021-2026)

Table 37. China Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Passenger Vehicles Emission Control Catalyst

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share (2021-2026)

Table 42. Rest of World Based Passenger Vehicles Emission Control Catalyst Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share (2021-2026)

Table 47. World Passenger Vehicles Emission Control Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Passenger Vehicles Emission Control Catalyst Production by Type (2021-2026) & (K Units)

Table 49. World Passenger Vehicles Emission Control Catalyst Production by Type (2027-2032) & (K Units)

Table 50. World Passenger Vehicles Emission Control Catalyst Production Value by Type (2021-2026) & (USD Million)

Table 51. World Passenger Vehicles Emission Control Catalyst Production Value by Type (2027-2032) & (USD Million)

Table 52. World Passenger Vehicles Emission Control Catalyst Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Passenger Vehicles Emission Control Catalyst Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Passenger Vehicles Emission Control Catalyst Production Value by Carrier Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Passenger Vehicles Emission Control Catalyst Production by Carrier Form (2021-2026) & (K Units)

Table 56. World Passenger Vehicles Emission Control Catalyst Production by Carrier Form (2027-2032) & (K Units)

Table 57. World Passenger Vehicles Emission Control Catalyst Production Value by Carrier Form (2021-2026) & (USD Million)

Table 58. World Passenger Vehicles Emission Control Catalyst Production Value by Carrier Form (2027-2032) & (USD Million)

Table 59. World Passenger Vehicles Emission Control Catalyst Average Price by Carrier Form (2021-2026) & (US\$/Unit)

Table 60. World Passenger Vehicles Emission Control Catalyst Average Price by Carrier Form (2027-2032) & (US\$/Unit)

Table 61. World Passenger Vehicles Emission Control Catalyst Production Value by Precious Metal Content, (USD Million), 2021 & 2025 & 2032

Table 62. World Passenger Vehicles Emission Control Catalyst Production by Precious Metal Content (2021-2026) & (K Units)

Table 63. World Passenger Vehicles Emission Control Catalyst Production by Precious Metal Content (2027-2032) & (K Units)

Table 64. World Passenger Vehicles Emission Control Catalyst Production Value by Precious Metal Content (2021-2026) & (USD Million)

Table 65. World Passenger Vehicles Emission Control Catalyst Production Value by Precious Metal Content (2027-2032) & (USD Million)

Table 66. World Passenger Vehicles Emission Control Catalyst Average Price by Precious Metal Content (2021-2026) & (US\$/Unit)

Table 67. World Passenger Vehicles Emission Control Catalyst Average Price by Precious Metal Content (2027-2032) & (US\$/Unit)

Table 68. World Passenger Vehicles Emission Control Catalyst Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Passenger Vehicles Emission Control Catalyst Production by Application (2021-2026) & (K Units)

Table 70. World Passenger Vehicles Emission Control Catalyst Production by Application (2027-2032) & (K Units)

Table 71. World Passenger Vehicles Emission Control Catalyst Production Value by Application (2021-2026) & (USD Million)

Table 72. World Passenger Vehicles Emission Control Catalyst Production Value by Application (2027-2032) & (USD Million)

Table 73. World Passenger Vehicles Emission Control Catalyst Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Passenger Vehicles Emission Control Catalyst Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. BASF SE Basic Information, Manufacturing Base and Competitors

Table 76. BASF SE Major Business

Table 77. BASF SE Passenger Vehicles Emission Control Catalyst Product and Services

Table 78. BASF SE Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. BASF SE Recent Developments/Updates
- Table 80. BASF SE Competitive Strengths & Weaknesses
- Table 81. Umicore Basic Information, Manufacturing Base and Competitors
- Table 82. Umicore Major Business
- Table 83. Umicore Passenger Vehicles Emission Control Catalyst Product and Services
- Table 84. Umicore Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Umicore Recent Developments/Updates
- Table 86. Umicore Competitive Strengths & Weaknesses
- Table 87. Johnson Matthey Basic Information, Manufacturing Base and Competitors
- Table 88. Johnson Matthey Major Business
- Table 89. Johnson Matthey Passenger Vehicles Emission Control Catalyst Product and Services
- Table 90. Johnson Matthey Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Johnson Matthey Recent Developments/Updates
- Table 92. Johnson Matthey Competitive Strengths & Weaknesses
- Table 93. Tenneco Basic Information, Manufacturing Base and Competitors
- Table 94. Tenneco Major Business
- Table 95. Tenneco Passenger Vehicles Emission Control Catalyst Product and Services
- Table 96. Tenneco Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Tenneco Recent Developments/Updates
- Table 98. Tenneco Competitive Strengths & Weaknesses
- Table 99. FORVIA Group Basic Information, Manufacturing Base and Competitors
- Table 100. FORVIA Group Major Business
- Table 101. FORVIA Group Passenger Vehicles Emission Control Catalyst Product and Services
- Table 102. FORVIA Group Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. FORVIA Group Recent Developments/Updates
- Table 104. FORVIA Group Competitive Strengths & Weaknesses
- Table 105. Eberspcher Basic Information, Manufacturing Base and Competitors
- Table 106. Eberspcher Major Business
- Table 107. Eberspcher Passenger Vehicles Emission Control Catalyst Product and

## Services

Table 108. Eberspcher Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Eberspcher Recent Developments/Updates

Table 110. Eberspcher Competitive Strengths & Weaknesses

Table 111. Cummins Basic Information, Manufacturing Base and Competitors

Table 112. Cummins Major Business

Table 113. Cummins Passenger Vehicles Emission Control Catalyst Product and Services

Table 114. Cummins Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Cummins Recent Developments/Updates

Table 116. Cummins Competitive Strengths & Weaknesses

Table 117. Clariant Basic Information, Manufacturing Base and Competitors

Table 118. Clariant Major Business

Table 119. Clariant Passenger Vehicles Emission Control Catalyst Product and Services

Table 120. Clariant Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Clariant Recent Developments/Updates

Table 122. Clariant Competitive Strengths & Weaknesses

Table 123. Klarius Products Basic Information, Manufacturing Base and Competitors

Table 124. Klarius Products Major Business

Table 125. Klarius Products Passenger Vehicles Emission Control Catalyst Product and Services

Table 126. Klarius Products Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Klarius Products Recent Developments/Updates

Table 128. Klarius Products Competitive Strengths & Weaknesses

Table 129. Ecocat India Pvt Basic Information, Manufacturing Base and Competitors

Table 130. Ecocat India Pvt Major Business

Table 131. Ecocat India Pvt Passenger Vehicles Emission Control Catalyst Product and Services

Table 132. Ecocat India Pvt Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. Ecocat India Pvt Recent Developments/Updates

Table 134. Ecocat India Pvt Competitive Strengths & Weaknesses

Table 135. CDTi Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 136. CDTi Advanced Materials Major Business

Table 137. CDTi Advanced Materials Passenger Vehicles Emission Control Catalyst Product and Services

Table 138. CDTi Advanced Materials Passenger Vehicles Emission Control Catalyst Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. CDTi Advanced Materials Recent Developments/Updates

Table 140. CDTi Advanced Materials Competitive Strengths & Weaknesses

Table 141. Global Key Players of Passenger Vehicles Emission Control Catalyst Upstream (Raw Materials)

Table 142. Global Passenger Vehicles Emission Control Catalyst Typical Customers

Table 143. Passenger Vehicles Emission Control Catalyst Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Passenger Vehicles Emission Control Catalyst Picture
- Figure 2. World Passenger Vehicles Emission Control Catalyst Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Passenger Vehicles Emission Control Catalyst Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 5. World Passenger Vehicles Emission Control Catalyst Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Region (2021-2032)
- Figure 7. World Passenger Vehicles Emission Control Catalyst Production Market Share by Region (2021-2032)
- Figure 8. North America Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 9. Europe Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 10. China Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 11. Japan Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 12. South Korea Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 13. India Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 14. Mexico Passenger Vehicles Emission Control Catalyst Production (2021-2032) & (K Units)
- Figure 15. Passenger Vehicles Emission Control Catalyst Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)
- Figure 18. World Passenger Vehicles Emission Control Catalyst Consumption Market Share by Region (2021-2032)
- Figure 19. United States Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 20. China Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 21. Europe Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 22. Japan Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 23. South Korea Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 25. India Passenger Vehicles Emission Control Catalyst Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Passenger Vehicles Emission Control Catalyst by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Passenger Vehicles Emission Control Catalyst Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Passenger Vehicles Emission Control Catalyst Markets in 2025

Figure 29. United States VS China: Passenger Vehicles Emission Control Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Passenger Vehicles Emission Control Catalyst Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Passenger Vehicles Emission Control Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share 2025

Figure 33. China Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Passenger Vehicles Emission Control Catalyst Production Market Share 2025

Figure 35. World Passenger Vehicles Emission Control Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Type in 2025

Figure 37. Three-Way Catalyst (TWC)

Figure 38. Diesel Oxidation Catalyst (DOC)

Figure 39. Selective Catalytic Reduction (SCR)

Figure 40. Others

Figure 41. World Passenger Vehicles Emission Control Catalyst Production Market

Share by Type (2021-2032)

Figure 42. World Passenger Vehicles Emission Control Catalyst Production Value

Market Share by Type (2021-2032)

Figure 43. World Passenger Vehicles Emission Control Catalyst Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World Passenger Vehicles Emission Control Catalyst Production Value by Carrier Form, (USD Million), 2021 & 2025 & 2032

Figure 45. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Carrier Form in 2025

Figure 46. Honeycomb Ceramic Carrier Catalyst

Figure 47. Metal Carrier Catalyst

Figure 48. Granular Carrier Catalyst

Figure 49. World Passenger Vehicles Emission Control Catalyst Production Market Share by Carrier Form (2021-2032)

Figure 50. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Carrier Form (2021-2032)

Figure 51. World Passenger Vehicles Emission Control Catalyst Average Price by Carrier Form (2021-2032) & (US\$/Unit)

Figure 52. World Passenger Vehicles Emission Control Catalyst Production Value by Precious Metal Content, (USD Million), 2021 & 2025 & 2032

Figure 53. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Precious Metal Content in 2025

Figure 54. Precious Metal Catalyst

Figure 55. Non-precious Metal Catalyst

Figure 56. World Passenger Vehicles Emission Control Catalyst Production Market Share by Precious Metal Content (2021-2032)

Figure 57. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Precious Metal Content (2021-2032)

Figure 58. World Passenger Vehicles Emission Control Catalyst Average Price by Precious Metal Content (2021-2032) & (US\$/Unit)

Figure 59. World Passenger Vehicles Emission Control Catalyst Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Application in 2025

Figure 61. Sedan

Figure 62. MPV

Figure 63. SUV

Figure 64. Others

Figure 65. World Passenger Vehicles Emission Control Catalyst Production Market

Share by Application (2021-2032)

Figure 66. World Passenger Vehicles Emission Control Catalyst Production Value Market Share by Application (2021-2032)

Figure 67. World Passenger Vehicles Emission Control Catalyst Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Passenger Vehicles Emission Control Catalyst Industry Chain

Figure 69. Passenger Vehicles Emission Control Catalyst Procurement Model

Figure 70. Passenger Vehicles Emission Control Catalyst Sales Model

Figure 71. Passenger Vehicles Emission Control Catalyst Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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