

DOC and DPF Market by Type (DOC, DPF), Application (HCVs, MCVs, LCVs, Passenger Cars), and Region 2025-2033

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Report description:

The global DOC and DPF market size reached USD 21.6 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 36.2 Billion by 2033, exhibiting a growth rate (CAGR) of 5.58% during 2025-2033. Rising environmental consciousness, extensive research and development (R&D) activities, and the widespread application of DOC and DPF represent some of the key factors driving the market.

A diesel oxidation catalyst (DOC) refers to a catalytic after-treatment converter specially designed to reduce and transform carbon monoxide (CO) and hydrocarbons into carbon dioxide (CO₂) and water by using oxygen in the exhaust. Meanwhile, a diesel particulate filter (DPF) represents a component that helps physically capture and store exhaust soot to reduce automobile emissions. These devices are structured in honeycomb ceramic filters and are explicitly used in diesel engines to reduce gas-phase emissions flowing through the catalysts. DOC and DPF help measure the amount of carbon present and indicate its quality, improve the engine performance, optimize the fuel economy, and reduce nitrogen oxides (NO_x) emissions. Based on these properties, DOC and DPF are extensively used in light, medium, and heavy commercial vehicles (HCVs) and passenger cars to enhance vehicle efficiency.

DOC and DPF Market Trends:

The widespread application of DOC and DPF in the automotive industry represents one of the key factors driving the market growth. In line with this, the rising demand for diesel vehicles is acting as another major growth-inducing factor. Moreover, an enhanced focus on sustainable development and stringent governmental regulations regarding environmental conservation are contributing to the market growth. Governments of various countries are also undertaking several green initiatives, which is contributing to the market growth. Increasing establishments of regulatory authorities in various countries responsible for emission monitoring are favorable supporting the market growth. In addition to this, significant technological advancements by manufacturers to improve the products performance and the advent of a selective catalytic reduction (SCR) system for controlling

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and reducing NOx emissions at lower temperatures are contributing to the market growth. Apart from this, the emerging trend of utilizing battery electric vehicles (EVs) are driving the market growth. This, along with strategic collaborations amongst original equipment manufacturers (OEMs) and several leading players to engineer diverse and more effective product variants are driving the market toward growth. Other factors, such as extensive research and development (R&D) activities and an increasing number of aftermarket suppliers catering to the required needs of DOC and DPF users, are creating a positive outlook for the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global DOC and DPF market, along with forecasts at the global, regional, and country levels from 2025-2033. Our report has categorized the market based on type and application.

Type Insights:

DOC
DPF

The report has also provided a detailed breakup and analysis of the DOC and DPF market based on the type. This includes DOC and DPF. According to the report, DPF represented the largest segment.

Application Insights:

HCVs
MCVs
LCVs
Passenger Cars

A detailed breakup and analysis of the DOC and DPF market based on the application have also been provided in the report. This includes HCVs, MCVs, LCVs, and passenger cars. According to the report, LCVs accounted for the largest market share.

Regional Insights:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy

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Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for DOC and DPF. Some of the factors driving the Asia Pacific DOC and DPF market included the implementation of stringent emission regulations, rising environmental concerns, and extensive research and development (R&D) activities.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global DOC and DPF market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Corning Incorporated, Cummins Inc., Faurecia SE, Futaba Industrial Co. Ltd., Nett Technologies Inc., Tata AutoComp Katcon Exhaust Systems Pvt. Ltd., etc.

Key Questions Answered in This Report

1. How big is the global DOC and DPF market?
2. What is the expected growth rate of the global DOC and DPF market during 2025-2033?
3. What are the key factors driving the global DOC and DPF market?
4. What has been the impact of COVID-19 on the global DOC and DPF market?
5. What is the breakup of the global DOC and DPF market based on the type?
6. What is the breakup of the global DOC and DPF market based on the application?
7. What are the key regions in the global DOC and DPF market?
8. Who are the key players/companies in the global DOC and DPF market?

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