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Diesel Particulate Filter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Substrate Type (Cordierite, Silicon Carbide, Others), By Regeneration Catalyst (Platinum-Rhodium (Pt-Rh), Palladium-Rhodium (Pd-Rh), Platinum-Palladium-Rhodium (Pt-Pd-Rh)), By Vehicle Type (Passenger Car, Light Commercial Vehicles (LCV), Truck, Bus, Off Highway Vehicles), By Demand Category (OEM, Aftermarket), By Region & Competition, 2021-2031F

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Abstracts

The Global market for Diesel Particulate Filters is anticipated to expand from USD 21.68 billion in 2025 to USD 34.08 billion by 2031, reflecting a compound annual growth rate of 7.83%. These filters, constructed from ceramic or metallic materials, are designed to trap and eliminate particulate matter from diesel exhaust, playing a vital role in adhering to modern emission laws. The market's upward trajectory is mainly fueled by strict international emission rules requiring substantial decreases in diesel particulate output, combined with the ongoing need for heavy commercial trucks globally. Additionally, a growing worldwide consciousness regarding air pollution is accelerating the integration of these sophisticated emission management systems.

Data from the European Automobile Manufacturers' Association (ACEA) highlights that diesel retained its dominance in the European Union's medium and heavy-duty truck sector in 2025, capturing 93.2% of new vehicle registrations even amidst an 8% decrease in overall volume. However, a major hurdle threatening future market growth

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is the rapid worldwide shift toward electric vehicles, a trend that naturally shrinks the long-term demand for parts reliant on internal combustion engines, such as diesel particulate filters.

Market Driver

Strict international emission laws heavily dictate the growth of the Diesel Particulate Filter industry, forcing vehicle makers to utilize complex aftertreatment mechanisms to lower toxic exhaust pollutants. Illustrating this, the upcoming Euro 7 standards, effective for new trucks over 3.5 tonnes starting May 2028, target a 56% reduction in nitrogen oxides and a 39% drop in particulates by 2035 compared to Euro 6, directly boosting the need for advanced DPFs. Concurrently, a persistent reliance on heavy-duty commercial diesel fleets supports ongoing market momentum. Although North American commercial truck sales dipped overall in 2025, strong future indicators, like the 42,700 Class 8 truck orders recorded by NADA in December 2025 (a 118% jump from November), highlight the enduring necessity for diesel transport in vital industries such as logistics, regardless of short-term market shifts.

These catalysts highlight the essential function of DPFs in ensuring that both existing and newly manufactured diesel vehicles meet strict regulatory standards. A rising international focus on clean air continues to compel the use and upkeep of robust particulate filtration systems. Additionally, the global support network for such technologies is growing, with the Climate and Clean Air Coalition and UNEP noting that by January 2025, 115 nations had implemented low-sulfur diesel regulations, which is vital for DPF performance and durability. Even with the swift move toward electric vehicles, the near-term operational needs of heavy diesel trucks and increasingly rigorous environmental policies guarantee the sustained importance of DPF technologies in the market.

Market Challenge

The rapid worldwide shift toward electric vehicles poses a major obstacle to the expansion of the Diesel Particulate Filter industry. Because DPFs are fundamental parts of diesel exhaust mechanisms, their demand naturally declines as electric models steadily phase out internal combustion engine vehicles. This transition intrinsically shrinks the long-term commercial viability and market capacity for diesel filters, even if short-term reliance on heavy-duty diesel trucks remains steady.

The increasing incorporation of electric vehicles into commercial operations immediately

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narrows the potential customer base for emission control systems tied to diesel engines. For example, data from the European Automobile Manufacturers' Association (ACEA) revealed that electrically-chargeable trucks over 3.5 tonnes captured 4.2% of the European Union market in 2025, up from 2.3% the year prior. The rising adoption of zero-emission commercial transport signals a definitive move away from diesel-powered engines, which will inevitably restrict future revenue and sales opportunities for DPF producers as global vehicle fleets continue to electrify.

Market Trends

Breakthroughs in materials and design for DPFs are profoundly shaping the industry by delivering superior filtration effectiveness and increased longevity. Innovative manufacturing processes and the use of cutting-edge materials are producing filters with better heat resistance and regeneration functions, facilitating extended maintenance schedules and dependable operation under harsh conditions. For example, Johnson Matthey announced the certification of its DPFi electrically regenerating system in March 2026, showcasing its capacity to eliminate over 99% of diesel particles in severe settings like underground mines, a technological leap that meets advanced operational needs rather than just basic legal standards.

The rising integration of particulate filters into off-highway and industrial machinery is creating a lucrative new sector for manufacturers. More rigorous emission laws targeting non-road mobile equipment are forcing companies in mining, construction, and agriculture to adopt high-tech filtration mechanisms. Highlighting the scale of this opportunity, a March 2026 report by the Association of Equipment Manufacturers noted that the U.S. off-highway equipment sector reached $902 billion in sales during 2025, indicating that this push into historically lenient industries is offering a vital path for growth and income diversification outside of standard on-road truck applications.

Key Market Players

Tenneco Inc.

Faurecia SE

Eberspacher Group GmbH & Co. KG

Donaldson Company, Inc.

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Cummins Inc.

Bosal International N.V.

NGK Insulators, Ltd.

Denso Corporation

Johnson Matthey Plc

BASF SE

Report Scope

In this report, the Global Diesel Particulate Filter Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Diesel Particulate Filter Market, By Substrate Type

Cordierite

Silicon Carbide

Others

Diesel Particulate Filter Market, By Regeneration Catalyst

Platinum-Rhodium (Pt-Rh)

Palladium-Rhodium (Pd-Rh)

Platinum-Palladium-Rhodium (Pt-Pd-Rh)

Diesel Particulate Filter Market, By Vehicle Type

Passenger Car

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India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Diesel Particulate Filter Market.

Available Customizations:

Global Diesel Particulate Filter Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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Detailed analysis and profiling of additional market players (up to five).

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