

PTX DIESEL CATALYST

Reducing CO & HC by up to 95%



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 **PYROBAN**[®]
Envirosafe

Controlling **your**
diesel exhaust emissions



PTX DIESEL CATALYST

Diesel Oxidation Catalyst

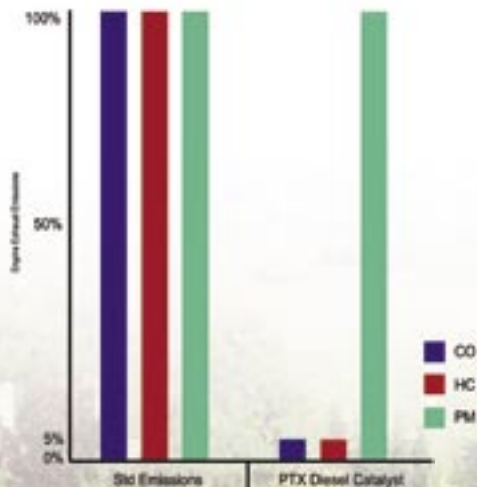
SYSTEM OVERVIEW

Pyroban Envirosafe's PTX Diesel Catalyst is one of the key after treatment exhaust emission solutions, lowering harmful emissions from diesel engines.

The PTX Diesel Catalyst promotes an oxidation reaction reducing the tailpipe output of two of the gases found in diesel exhaust emissions, CO and HC. This type of system is often referred to as an 'oxidation' or 'two way catalyst'.

- The PTX Diesel Catalyst is designed to treat the CO and HC emissions from a typical diesel engines that can lead to various health implications including headaches, choking, lethargy and eye irritation.

EMISSION REDUCTIONS



* The PTX Diesel Catalyst allows up to 95% reduction in Carbon Monoxide and Hydrocarbons.



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BACKGROUND

Diesel oxidation catalysts are seen as one of the first advances in exhaust emission technology and is termed the traditional approach to reducing exhaust emissions.

Diesel oxidation catalysts were first introduced in the 1970s to protect the ambient air quality in underground mines.

Since then, catalysts such as Envirosafe's PTX Diesel Catalyst have been widely implemented into various confined environments such as warehouses, foundries, builder merchants, tunnels, factories airports and distribution centres.

HOW DOES IT WORK?

Pyroban Envirosafe's PTX Diesel catalyst, designed and manufactured at our facilities in the West Midlands gives the traditional benefits of a "two way" or oxidation catalyst, ideally suiting diesel engines, treating the CO and HC content of the exhaust fumes.

- PTX diesel catalysts work by converting these gases to Carbon Dioxide (CO₂) and Water (H₂O).
- The catalytic conversion requires a heat source, so choosing the location of the catalyst within the exhaust system is very important. The need for a heat source makes the PTX catalyst ideally suited to diesel powered equipment operating medium to high duty cycles so they can generate the heat needed for oxidation.
- At low rev. conditions, the closer the catalyst is to the manifold the more effective it will be. However, with the modern ergonomic designs of today's forklift trucks, mini excavator and access platforms, we find that space is at a premium and that the preferred option for most applications is a pattern silencer based on the original equipment part.



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Diesel Oxidation Catalyst



KEY BENEFITS & FEATURES

- PTX diesel catalysts are a cost effective, reliable and efficient approach to reducing your diesel exhaust emissions, aiding compliance with H&S and air quality standards.
- The Pyroban EnviroSAFE PTX diesel catalysts can be designed to directly replace the existing muffler with a brand new universal; simplifying design, installation and typically lowering cost.
- PTX diesel catalysts are a 'fit and forget' solution requiring no system maintenance, saving on vehicle downtime and service engineer costs.
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- The PTX is housed in stainless steel for long life expectancy, allowing a long-term emission solution.
- The system does not require ultra low sulphur diesel (ULSD) and is resistant to ash produced by the burning of engine oil making it suitable for vehicles where ultra low sulphur diesel (50ppm) is not available.



Protecting people, their investment and our environment

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