

ENERGENICS

Diesel Particulate Filters (DPFs) are often fitted to exhaust systems to trap the harmful soot particles produced in diesel emissions. However the filter will rapidly block up unless a process called regeneration happens to clear it. Soot or carbon particles will burn completely away - like charcoal on a BBQ - but DPFs rely upon exhaust gas temperatures becoming hot enough for this to happen.

Operational problems with DPFs related to premature blocking continue to be reported in industry circles, particularly in slow urban driving cycles like London traffic where the exhaust gases do not reach the necessary temperature for a sufficient part of the operating cycle to regenerate the filter. Coach operators who have purchased DPFs to comply with the latest requirements of the London Low Emission Zone can be in a difficult situation. Even in the absence of actual blocking problems, fuel

economy tends to worsen because the engine has to work harder against the back pressure caused by soot build up in the exhaust system.

Specifically designed to help deal with this situation, Envirox DPF Assist is a new offering from Energenics Europe, the Oxford-based producer of the well-known nanotechnology fuel additive Envirox. Regular Envirox is mainly targeted at saving fuel



The new Envirox DPF assist comes in 500ml bottles which can treat 1,000 litres of fuel

and is usually supplied in drum quantities to bus depots where it is injected into bulk diesel fuel. This has had a high profile in the UK bus industry since Stagecoach adopted it nationally in 2005, followed more recently by East Yorkshire Motor Services and others. However, at higher dose levels the active cerium oxide nanocatalyst in Envirox will perform as an effective Fuel Borne Catalyst (FBC), a well established class of fuel additives which have a proven history of regenerating DPFs.

Cerium oxide is not normally compatible with diesel fuel but using nanotechnology it has been reengineered into an active liquid form which mixes in easily. After combustion the cerium oxide particles combine with the soot particles that accumulate in the DPF. This significantly lowers the temperature the exhaust gases need to reach to burn off the trapped soot particles. Envirox DPF Assist also includes a strong dose of the detergent additive chemistry

used by premium fuel retailers to clean fuel injectors and preserve optimal spray patterns.

It is supplied in a convenient 500 ml bottle with a 25 ml dispensing chamber which is well matched to the dosing recommendations. There are two main ways of using it:

- 1 On an occasional basis to assist with a DPF that is already showing signs of blockage - this requires 2 x 25ml measures for 50 litres of diesel fuel.
- 2 All the time to combat potential future blockages and achieve enhanced fuel economy - this requires one 25 ml measure for 50 litres of diesel fuel.

If used all the time, one 500 ml bottle of Envirox DPF Assist will treat 1,000 litres of diesel and more than pay for itself by delivering fuel savings approximately equal to double its cost.

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NEW Fuel Treatment for Particulate Filter regeneration



Envirox™
DPF ASSIST

Envirox™ DPF Assist is a new Fuel Treatment for regenerating Diesel Particulate Filters (DPFs). It is a fuel borne catalyst formulation that helps to burn off the trapped soot particles that build up in DPFs. It can both help to clear a blocked DPF and protect against future blockage.

For more information email **info@energenics.co.uk**
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