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## **Improves Performance of Existing Diesel Particulate Filters**

Platinum Plus<sup>®</sup> DFX-DPF is a technologically advanced fuel additive specifically formulated to improve operation and reduce maintenance of diesel applications with Diesel Particulate Filter (DPF) emissions control systems.

- Acts as a DPF problem solver for applications with rapid rates of soot buildup and minimizes back-pressure
- Especially attractive for applications with any low temperature cycles in its exhaust profile
- Initiates passive regeneration (soot oxidation) at low temperatures and more complete regeneration – no need to remove and bake
- Minimize unscheduled maintenance and operations costs
- Improves fuel economy and reduces CO<sub>2</sub> emissions 5-12% (or more depending on engine and application)
- Innovative solution backed by 200 worldwide patents

# **Typical Applications**

### On-Road

Buses, sanitation, urban delivery, tractor trailers

### Off-Road

Construction, mining, marine, military, locomotive

### Stationary

Emergency generation, distributed power, portable gensets



Clean Diesel Technologies

### Description

- Platinum Plus DFX-DPF is a liquid bimetallic platinum and cerium catalyst formulation soluble and stable in traditional diesel fuel and bio-diesel fuel
- Patented solution increases rate and completeness of fuel combustion
- Reduces out engine particulate matter by up to 20% with ULSD and 30% with B20/ULSD, so there is less soot to collect in the DPF
- Better combustion means less soot accumulation on turbo charger and other combustion exhaust components

### **Passive DPF Regeneration at Low Temperatures**

Platinum Plus lowers soot oxidation temperature as shown in chart to the right.

• Prevents run-away regeneration which can otherwise damage the integrity of the substrate and shorten the life of the DPF

# Secondary Performance and Maintenance Benefits

- · Visibly reduces smoke and opacity
- · Enhances water shedding, lubricity and stability
- Superior detergents keep injectors clean
- · Less soot buildup in lube oils can result in reduced maintenance and potentially longer drain intervals

### **Sustainability and Bottom Line**

• Helps achieve sustainability goals by lowering the carbon impact of diesel applications

- Reduces CO<sub>2</sub> by 5-12% (or more depending on engine and application)
- Furthermore, reduces secondary GHG emissions of PM, HC and NOx
- Lowers NO2 emissions for bio-diesel applications



### **Verified Solution**

- European and EPA registered
- VERT-approved with DPF
- MSHA-accepted

### **Complete Range of Fuel Dosing Options**

- On-board doser and reservoir systems available
- Bulk dosing systems for fuel terminals
- · Concentration options ranging from 1:1500 to 1:10000 additive-to-fuel ratios

### **Physical Specifications and Handling**

Appearance	Thin dark amber liquid
Specific Gravity, 23-24°C	0.9 typical
Active Catalyst @ 1:1500	8.0 ppm
Flash Point	115°F/46°C
Pour Point	-65°F/-54°C



Note: To maintain peak catalytic activity, Platinum Plus should stored out of direct sunlight and not exposed for prolonged periods to temperatures in excess of 40°C. Containers should be electrically grounded during transfer.



### the cleantech emissions reduction company



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