

EnviroFuels DFC Data Sheet

(DFC = Diesel Fuel Catalyzer)

Product Description

EnviroFuels DFC (DFC) is an application-engineered, fuel-borne technology that utilizes proprietary technology to produce results verified by the U.S. Environmental Protection Agency (EPA). When DFC is introduced into diesel fuel, it improves the combustion process and reduces friction, increasing fuel economy while reducing emissions and engine wear. Unlike additives such as cetane enhancers, alcohols, or metal-based catalysts that seek to alter the fuel, DFC uses the fuel as a carrier into the combustion chamber.

The patented technology utilizes two processes to positively impact the engine: a catalytic reaction and a surface conversion. The catalytic reaction optimizes the heat release rate, which leads to increased power, reduced emissions, and increased fuel efficiency. The surface conversion mechanism forms an inorganic polymer complex on the surface of ferrous and non-ferrous metal surfaces, which smooth and passivate the surface improving reflectivity (emissivity) and reducing oxygen reactivity, resulting in a more complete combustion. This surface conversion can also reduce friction between metal surfaces which can increase component life and reduce fuel consumption.

Applications

DFC is splash blended into the fuel tank or injected into the fuel stream at a low dosage ratio. The recommended normal treat ratio of DFC-to-diesel fuel is 1:1,250. EnviroFuels currently provides its fuel-borne technology to the dredging, marine, mining, oil & gas, and rail industries across various engine platforms, including:

- » Alco
- » Caterpillar
- » Cummins
- » Detroit Diesel / MTU
- » Deutz
- » EMD
- » Fairbanks Morse
- » GE
- » John Deere
- » Mitsubishi
- » Ruston
- » Wartsila

Typical Properties & Benefits

- » Viscosity @ 40° C, 20 - 28 cSt
- » Viscosity @ 100° C, 4.4 - 5.7 cSt
- » Flash point > 100° C (212° F)
- » Pour point of -30 to -40° C (-22 to -40° F)
- » Contains no zinc, chlorine, alcohol, or heavy metals
- » Cleans internal engine components
- » Improves lubricity in fuel injection system and engine
- » Improves fuel efficiency
- » Increases torque
- » Reduces harmful combustion emissions (NOx, UBHC)
- » Reduces visible smoke (opacity)
- » Reduces exhaust gas temperatures
- » Reduces engine noise and vibration
- » Reduces carbon deposits

Refer to Material Safety Data Sheet (MSDS) for storage and handling precautions.

For more information, call 1-877-402-9600, 1-713-821-9600, or visit www.envirofuelsllc.com.