



## **CM-0938**

### **DIESEL FUEL COMBUSTION MODIFIER**

CM-0938 is an exclusive in new technology using the thermodynamic principle of catalysis to reduce the energy required to completely burn diesel fuel. Energy output is increased as the competing reactions to combustion are greatly reduced if not eliminated.

The 3 primary diesel fuel additives are cetane improvers, detergents & lubricity agents. CM-0938 contains all 3 of these, plus a unique combustion catalyst. Catalysts reduce the activation energy barrier. The CM-0938 catalyst reduces the energy required to start the chemical reaction of combustion and selectively accelerates the single desired reaction pathway, enhancing the combustion process while minimizing the side reactions that compete with combustion and rob a portion of the fuel's energy. This results in; a more efficient combustion process; more combustion energy yielded from the fuel; reduced unburned fuel emissions; and reduced emission by-products.

CM-0938 complies with federal ULSD requirements and has received EPA 211.b registration after exhaustive emissions testing, physical standards testing, performance claim testing, no harms durability testing, and materials compatibility testing. EPA # 217620002

Southwest Research Institute conducted SAE J1321 Joint TMC/SAE Fuel Consumption Test Procedure Type II, the industry's primary long haul fuel consumption testing protocol, and found CM-0938 to improve fuel mileage an average of 3.06% ! They also found CM-0938 to increase diesel lubricity by 44%, reduce NOx by 5.7% and reduced particulate emissions by 11.6%.

ArchOil's CM-0938 delivers a valuable improvement in fuel efficiency with a solid ROI.

CM-0938 is highly concentrated. Dilute 2,000: 1 for general use. Dilute at minimum 1000:1 for initial clean out treatments.

#### **FEATURES / BENEFITS:**

- Increases fuel efficiency 3% or more
- Reduces particulate emissions 11.6%
- Reduces NOx emissions 5.7%
- Increases diesel lubricity 44%
- Cleans and maintains fuel systems
- Improves cetane values
- Increases combustion efficiency
- Compatible with bio-diesel
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#### **SPECIFICATIONS:**

EPA Registration ..... 21762002

Appearance .....	Clear brown liquid
Specific gravity .....	0.87@ 25°C (7.244 LB/GL.)
Viscosity .....	0.7 CPS
Flash point .....	80°F
Auto ignition temp. ....	980°F
NFPA rating .....	H-2 F-3 R-0
EPA designation .....	U239
RTECS .....	ZE2100000

## SUMMARY OF TEST RESULTS

***SOUTHWEST RESEARCH INSTITUTE™***  
***SwRI Project# 08-10587***

TEST	STD ULSD FUEL	ULSD WITH CM-0908	CHANGE
Fuel Economy BSFE	0.390G/BHP-H	0.380G/BHP-H	+ 2.60%
Fuel Economy J-1321			+ 3.06%
Lubricity ASTM-D-6079	0.590mm	0.330mm	+ 44%
NOx Emissions	4.900G/GHP-H	4.620G/GHP-H	- 5.70%
PM Emissions	0.225G/GHP-H	0.199G/GHP-H	- 11.60%

## PACKAGING:

16 oz. bottle  
32 oz. bottle  
1 gallon pail  
5 gallon pail  
55 gallon drum  
Totes (*call for information*)

Technical Support: 203-265-5700

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