

What is Enerdiesel™ ?

Enerdiesel™ is a superior, “clean diesel” fuel which is produced by a proven, cost-effective, innovative, additive product that enables ethanol to be blended with all diesel fuels. It is 7.7 vol% Fuel Ethanol, 0.5 vol% Patented Proprietary Additive & 91.8 vol% Regular Diesel.

Technology For The Future

The Enerdiesel™ additive is compatible with biodiesel as well as with all base diesel fuels. It enhances the quality of base diesel to that of a premium diesel.

Enerdiesel™ is blended on site using Energenics' state-of-the-art computerised blending equipment that automatically blends diesel, ethanol and our patented additive into a clear stable solution prior to being dispensed into the tank of the vehicle.

Cleaner Environment

Usage of Enerdiesel™ results in visibly cleaner air as the fuel is effective in reducing:

- white smoke caused by incomplete combustion during ignition of cold engines
- black smoke composed of carbon particles containing VOCs

It is proven that usage of Enerdiesel™ leads to a reduction in key pollutants.



Benefits of Enerdiesel™

Lubricity Enhancement

Cleaner Injector Nozzles

Maintains Engine Performance

Stable in a Variety of Climates

Fungible

Less Contamination of Lubricant Oil

Improved Conductivity

No Loss of Fuel Efficiency

Extends Oil & Filter Changes

Improved Fuel Economy

Compatible With Other Technologies

New Engines - EURO IV & EURO V

Diesel Oxidation Catalysts

Bio-Diesel

Diesel Particulate Traps

SCR

Hybrid Bus

Compatibility With Materials & Components

Ample program of “No harm” tests carried out by international laboratories

Bosch 1000 hour fuel pump test pass

EnerDiesel™ was tested with different materials such as metals, elastomers, rubber, etc
No adverse effects were observed

Premium Clean Fuel

Compatible operability with all base diesel fuels:

Enhances quality of base diesel to that of a premium diesel

Lubricity enhancement: Up to 40%.

Improves conductivity: Ethanol quickly dissipates static electricity (High conductivity)

Cetane number: Equal to or exceeds that of base fuel.

Distribution system cleanliness:

Trouble free operations due to complete and permanent cleaning of fuel-system

Fungible:

Vehicle can fill up with regular diesel if operating out of area, avoiding “range” restrictions.

Stable in variety of climates: Cold and hot weather stability and operability.

Maintains engine performance: No measurable torque or horsepower loss.

No Loss of Fuel Efficiency :

No difference in efficiency between EnerDiesel™ and regular Diesel in bus fleets within repeatability of test measurement.

Customised Delivery

Enerdiesel™ can be blended on site using Energenics' proprietary blending equipment

All Enerdiesel™ components are blended using a computerised dosing unit which offers high accuracy and homogeneous blending. This operation is fully automated without any need for constant human supervision.

Remote communication capability provides a status report of diesel, ethanol & additive usage to assist with the planning for replenishment. Remote system diagnostics enables trouble-free operation and software upgrading.

Our low cost ethanol storage tanks meets all international standards & requirements.

Physical and Chemical Properties

Property	Test Method	Base Diesel	Enerdiesel
Distillation % Vol. Recovery, °C			
• T90	ASTM D-86	316	314
• T95		326	324
Cetane Number	ASTM D-613	40	40
Kinetic Viscosity @40°C, cst	ASTM D-445	2.6	2.5
Sulfur, %max.	ASTM D-5453	0.04	0.04
Specific Gravity @15°C	ASTM D-1298	0.845	0.845
Cu Strip Corrosion	ASTM D-130	1a	1a
Cold Flow, CFPP, °C	EN 116	-23	-23
Lubricity			
• SLBOCLE, g	ASTM D-6078	4000	5000
• HFRR, microns @60°C	ASTM D-6079	550	330
Oxidation Stability			
• PAD F21, %	Octel F21-61	77	93
• ASTM D2274-94, g/m3	ASTM D-2274	5.3	6.4
Foam Vol Decay (w/antifoam), secs	NF M07-075 (BNPe')	<10	<10
Conductivity, ps/min	ASTM D-2624	<400	>20,000

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