

Mobil Diesel Efficient™

Mobil Diesel Efficient Product Data Sheet – US

Product Description

Mobil Diesel Efficient fuel helps improve fuel system performance in both on- and off-highway applications. The advanced fuel has been engineered to improve diesel fuel economy and boost engine performance, and has been tested in multiple real-world applications.

Features and Benefits

Mobil Diesel Efficient fuel contains a patented additive technology that is specially designed to clean up both internal injector deposits and nozzle coking deposits. Today's diesel engines have sophisticated fuel systems engineered to meet stringent emissions requirements. Deposits that form inside the fuel injectors can impede the movement of the needle, and cause early failure of the injectors. Deposits building up inside the injector nozzle can restrict fuel flow, deteriorate the fuel spray quality and result in loss of engine power, increased emissions and reduced fuel economy. Mobil Diesel Efficient fuel helps to prevent deposit formation and clean up existing deposits that may be damaging your engine performance. Further, Mobil Diesel Efficient offers fuel system corrosion protection. Mobil Diesel Efficient can also help to prevent premature fuel filter plugging.

Benefits	Advantages
Improved injector cleanliness	Maintain optimal fuel system performance to improve engine power and responsiveness while helping to prevent premature injector failure
Improved fuel economy	Average of 2% better fuel economy and reduced greenhouse gases (2% lower CO ₂ and 11% lower NO _x emissions)
"Keep clean" performance	Helps prevent accumulation of internal and external injector deposits to deliver improved fuel system performance and lower maintenance costs
Corrosion protection	Protect critical fuel system components
Improved fuel filter filterability	Avoid premature fuel filter plugging in thermally aged fuels or biodiesel with high monoglycerides
Improved cold weather operability	Winter package is fully formulated with a cold flow improver to offer extra protection against cold weather.

Applications

Mobil Diesel Efficient is designed to provide benefits in all types of applications with light, medium and heavy-duty diesel engines from different manufacturers, including but not necessarily limited to light-duty passenger cars, on-highway heavy-duty trucks and off-road construction/mining equipment. Mobil Diesel Efficient is specifically recommended for the latest engines with high-pressure injection systems, including those with high-pressure common rail (HPCR) injection.

Mobil Diesel Efficient with ultra-low sulfur level is compatible with today's advanced emission after treatment systems including Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF), Exhaust Gas Recirculation (EGR), and Selective Catalyst Reduction (SCR) and Lean NO_x Trap (LNT) technologies.

1 Applies to Mobil Diesel Efficient diesel fuel compared to diesel fuel without detergent additive. Vehicle testing showed an average fuel economy improvement of 2%. Actual benefits will vary depending on factors such as vehicle type, driving style and diesel fuel previously used.

Specifications

Mobil Diesel Efficient meets the requirements of: ASTM D975

Mobil Diesel Efficient Typical Properties¹

Property	Units	Typical	Test Method
Distillation Temperature, % vol. recovered, min-max °F 90%	°F 90%	540-640	D86
Kinematic Viscosity, 40 °C, min-max	cSt	1.9 - 4.1	D445
Flash Point, minimum 125	°F	125	D93
Cetane Number, minimum		40	D613
Cloud Point	°F	Meets Specification	D2500
Cold Filter Plugging Point (Winter Package Only)	°F below Cloud Point	15-20	D6371
Carbon Residue on 10% Distillation Residue, maximum	%mass	0.35	D524
Copper Corrosion, 3 hr @122F, maximum	rating	No. 3	D130
Lubricity @ 140F, maximum	microns	520	D6079
Sulfur, maximum	ppm (µg/g)	15	D5453
Water and Sediment, maximum	%volume	0.05	D2709
Ash	%mass	0.01	D482

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxon.com/diesel-efficient.com

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1. Conforms to ASTM D975 specifications for No. 2 diesel fuel oils.
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