

DIESEL FUEL SUPPLEMENT[®] + CETANE BOOST[®]

TECHNICAL BULLETIN 1000



Diesel Fuel Supplement[®] + Cetane Boost[®] is a winterizer/antigel that is used in the cold weather months to prevent fuel gelling and keep fuel-filters from plugging with ice and wax. This Arctic Formula provides trouble-free winter operation for diesel fuel.

Benefits

Prevents fuel gelling

Protects against fuel-filter icing

Boosts cetane for faster cold starts

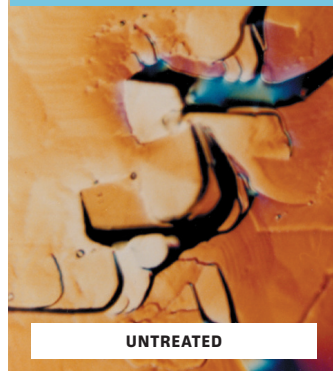
Contains **Slickdiesel[®] Lubricator** to protect fuel pumps and injectors from increased wear caused by Ultra Low Sulfur Diesel (ULSD) fuel

Effective in all diesel fuels, including ULSD and biodiesel blends

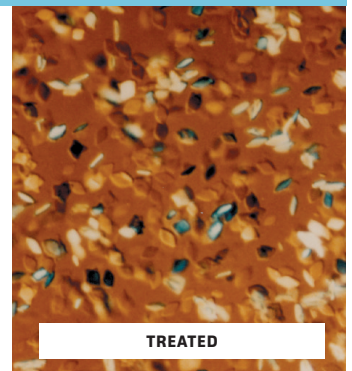
Prevents Fuel Gelling and Protects Against Fuel-Filter Icing

To maximize performance in cold temperatures, Power Service has developed the most advanced cold-flow improver technology available today for all diesel fuels, including Ultra Low Sulfur Diesel (ULSD) fuel and biodiesel blends. **Diesel Fuel Supplement** is designed to prevent fuel-filter plugging by modifying the size and shape of the wax crystals so they remain small enough to flow through fuel-filters without plugging. It also prevents the wax crystals from settling to the bottom of fuel tanks during storage. **Diesel Fuel Supplement** also contains a de-icer to help prevent fuel-filter and fuel line freezing caused by water.

DIESEL FUEL SUPPLEMENT MODIFIES WAX IN DIESEL FUELS



UNTREATED



TREATED

Without Diesel Fuel Supplement, large wax crystals block filters and transfer lines, causing fuel gelling.

With Diesel Fuel Supplement, small, compact wax crystals flow in suspension for trouble-free winter operation.

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TYPICAL PHYSICAL PROPERTIES OF DIESEL FUEL SUPPLEMENT + CETANE BOOST

Color	Brown
Density (lbs/gal)	7.5-7.7
Sulfur Content	<15 parts per million (ppm)
Flash Point	
Customer Convenience +Cetane Boost Formula (1:400)	111°F
Concentrated +Cetane Boost Formula (1:1,000)	116°F
Concentrated +Cetane Boost Formula (1:1,500)	121°F
Pour Point	
Customer Convenience +Cetane Boost Formula (1:400)	-55°F
Concentrated +Cetane Boost Formula (1:1,000)	-30°F
Concentrated +Cetane Boost Formula (1:1,500)	-15°F
Minimum Storage Temperature	
Customer Convenience +Cetane Boost Formula (1:400)	-20°F
Concentrated +Cetane Boost Formula (1:1,000)	0°F
Concentrated +Cetane Boost Formula (1:1,500)	10°F
Solubility	
In Diesel Fuel	Completely Soluble
In Biodiesel Blends	Completely Soluble
In Home Heating Oil	Completely Soluble
In Kerosene	Completely Soluble
Shipping and Handling	
Part Nos. 1016, 1025, 1080, 1128, 1050, 1055	Not regulated by DOT
Part Nos. 1060, 1260	Combustible Liquid N.O.S. NA 1993 (Petroleum Distillates) Marine Pollutant (2-Ethylhexyl Nitrate)

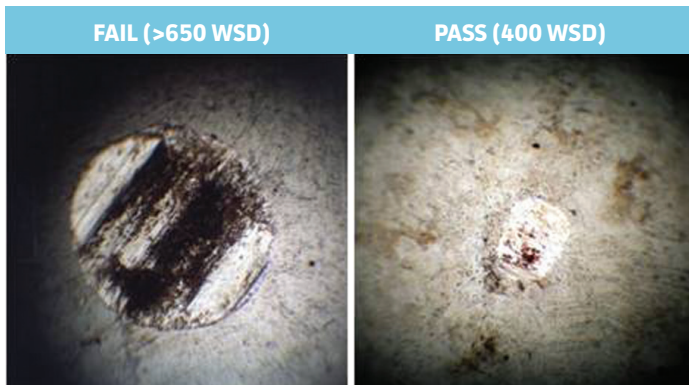
Diesel Fuel Supplement +Cetane Boost is safe for use in all diesel engines. This diesel fuel additive complies with the federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.

Boosts Cetane

There is a direct relationship between a diesel fuel's cetane number and its ignition point. Delayed ignition is a primary cause of increased emissions and inferior engine performance. The lower the cetane number, the longer the ignition delay. Fuels with high cetane numbers burn more quickly and more completely, resulting in smoother running engines with less power lag and easier engine starting.

Contains Slickdiesel® for Maximum Fuel Lubrication

Slickdiesel sets the standard for lubrication of diesel fuel injection systems. The components of diesel fuel injection systems are lubricated by diesel fuel. Without proper lubrication, fuel injectors and pumps are subjected to increased wear rates and premature failure. **Diesel Fuel Supplement® +Cetane Boost®** contains **Slickdiesel**, a proprietary Power Service® diesel fuel lubricator that exceeds the ASTM D-975 maximum specification for lubricity in Low and Ultra Low Sulfur Diesel (ULSD) fuels.



High Frequency Reciprocating Rig (HFRR) evaluates the lubricity of diesel fuel. The Wear Scar Diameter (WSD) maximum is 520 microns. A WSD measuring larger than 520 does not meet lubricity specifications.

PART#	PACK	TREATS
CUSTOMER CONVENIENCE +CETANE BOOST FORMULA – 1:400 TREATMENT RATIO		
1016-09	9/1 16-Ounce	Up to 40 Gallons
1025-12	12/1 32-Ounce	Up to 100 Gallons
1080-06	6/1 80-Ounce	Up to 250 Gallons
CONCENTRATED +CETANE BOOST FORMULA – 1:1,000 TREATMENT RATIO		
1128-04	4/1 One-Gallon	Up to 1,000 Gallons
1060	260-Gallon Tote	Up to 260,000 Gallons
CONCENTRATED +CETANE BOOST FORMULA – 1:1,500 TREATMENT RATIO		
1050-02	Two/2.5-Gallon	Up to 3,750 Gallons
1055	55-Gallon Drum	Up to 82,500 Gallons
1260	260-Gallon Tote	Up to 390,000 Gallons



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