



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

Winter Shield Diesel Treatment

Lucas Oil Winter Shield Anti-Gel Diesel Treatment is engineered to optimize engine performance and fuel system protection in extreme cold weather conditions. Formulated for reliable operation down to -20°F*, this treatment addresses the critical challenges of winter diesel operation.

The product delivers comprehensive cold-start enhancement by combining cetane improvement technology with water dispersant chemistry. Cetane levels increase by up to 2 numbers, enabling faster, more reliable ignition in low-temperature environments. Winter operability is significantly enhanced through an up to 20-degree depression of the Cold Filter Plug Point (CFPP), effectively extending the usable temperature range of treated fuel. Specialized wax crystal modifiers inhibit paraffin crystallization and growth, while anti-icing compounds prevent ice crystal formation that can lead to fuel line blockages and filter plugging. This formulation incorporates premium lubricity enhancers that provide critical wear protection to fuel injection systems, high-pressure pumps, and upper cylinder components.

Universal compatibility across all diesel applications ensures confident use in any diesel vehicle or equipment type, including those operating on diesel/biodiesel blends at any ratio. The product will not void engine manufacturer warranties.

1 Pint (16 FL oz) treats 60 gallons of fuel and lowers cold filter plugging point to as low as -20°F. One 2 Quart (64 FL oz) bottle treats 240 gallons of fuel.

*Actual improvement in cold flow performance will depend on the quality of the diesel fuel and its cold weather properties. Lucas Oil Winter Shield Anti-Gel Diesel Treatment should be added to diesel fuel that is at least 15 – 20 °F above its cloud point and adequately blended to ensure full interaction of the cold flow improvers with the fuel. Fuel treated below its cloud point, or fuel already treated with other cold flow improvers may not achieve the full performance potential of the product.

PART NUMBER AND SIZE:

11323 – 16 fl oz (Case of 12)

10866 – 64 fl oz (Case of 6)

FEATURES AND BENEFITS:

- Anti-Gel Protection works down to -20 F *
- +2 Cetane Boost for improved Cold Starts
- Added Lubricity: Improves wear and Fuel economy
- Water Dispersants to prevent fuel line freezing and filter icing
- Universal: Safe in all Diesel Vehicles
- Will not void engine manufacturer's warranty
- Inhibits wax crystal growth

MAIN APPLICATIONS:

Useful in cold weather operation of diesel engines, whether trucks or other mobile equipment (e.g. tractors, combines, earthmovers, etc.), or stationary equipment to prevent fuel gelling and improve cold starts.



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	TYPICAL
API Gravity	D4052	27.74
Specific Gravity @ 60°F	D4052	0.889
Density @ 60°F, Lbs/US Gal	D4052	7.409
Viscosity @ 40°C, cSt	D445	3.311
Flash Point – PMCC, °C	D93	175
Cloud Point, °C	D2500	-17
Odor		Petroleum
Appearance		Pale Yellow Liquid

These characteristics are typical of current production. However, slight variations in these characteristics may occur.

LINKS AND ADDITIONAL INFORMATION:

For additional product or health and safety information, including product Safety Data Sheets, visit.