



Lyden Oil Company

ProGuard Product Data

ProGuard Premium Winter Fuel Additive Product Data Sheet

ProGuard Premium Winter is specifically formulated for use in all types of diesel fuel, including Ultra Low Sulfur Diesel (ULSD). This additive contains less than 15 ppm sulfur, meeting the EPA requirements for use with ULSD. It is an ashless, multi-functional additive which provides significant money-saving performance benefits when used as recommended. **ProGuard Premium Winter** contains cold flow improvers and de-icer for cold weather operability as well as a robust detergency package for significantly improved fuel economy.

Superior Cold Weather Protection

- Disperses up to 100ppm of water and keeps it from freezing. Contains no alcohols.
- A lowered cold filter plugging point to 15°F – 25°F below the fuels cloud point.
- Inhibition of stable emulsions of fuel and water.
- Contains wax modifier – inhibits formation of large wax particles.
- Reduces or eliminates the need to blend with #1 diesel – saves money and increases fuel economy.

Fuel Economy

- Contains a high level of detergency to aggressively clean up injectors, which will improve fuel economy performance up to 8.0%.
- Prevents loss of engine power, which results from incomplete combustion of fuel.
- Double the level of detergency needed to meet Cummins L-10 Superior rating for injector cleanliness.

Lubricity

- Increases lubricity - especially beneficial when using ULSD, giving protection against wear for injectors, fuel pumps, upper cylinders, rings and valve train.
- Exceeds lubricity standard in ASTM D 975 as well as the stringent Engine Manufacturers Association (EMA) specification.

Emissions

- Reduces black smoke by up to 93%.
- Decreases NOx, hydrocarbon, carbon monoxide and particulate matter emissions

Stability

- Doubles storage stability, delaying oxidation of fuel during periods of extended down time.
- Decreases risk of thermal degradation of fuel.

Recommended Treatment Ratio:

One gallon of **ProGuard Premium Winter** treats 3000 gallons of diesel fuel.

The sulfur content of this additive does not exceed 15ppm.

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Lyden Oil Company

3249 Wales Ave. NW
Massillon, OH 44646
(330)832-7800
fax: (330)832-2787

3711 LeHarps Rd.
Youngstown, OH
(800)362-9410
fax: (330)792-1462

2649 Tracy Rd.
Northwood, OH
(800)245-9336
fax: (419)666-8790

419 Spring St.
Lansing, MI 48101
(800)968-6457
fax: (517)485-0605

24200 W. Outer Dr.
Allen Park, MI 48912
(313)383-0097
fax: (313)383-2342