

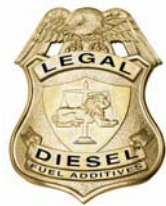


Performance Specialties

Legal Diesel™ Fuel Additive Starrphyre 2400

Starrphyre 2400 is a multifunctional middle distillate fuel additive that provides cetane number increase, injector detergency, fuel stabilization, corrosion inhibition, and lubricity, while maintaining fuel economy and emission control.

Innospec Fuel Specialties is the only manufacturing company solely focused on fuel and fuel additive technology.



40CFR80.591 Compliance Statement:

The sulfur content of this diesel fuel additive does not exceed 15 ppm. This is a LEGAL DIESEL™ Fuel Additive product.

Technical Support: (302) 454-8100
Customer Service
Resource Center: (800) 441-9547

Starrphyre 2400 provides the following performance benefits:

- L10 superior detergency
- Improves and maintains fuel economy
- Passes Class 8 Truck Fuel Filter Plugging Test
- Reduces exhaust emissions
- Water dispersant to help safely remove water on a gradual basis
- Typical cetane number increase of 2 - 4 numbers
- Fully synthetic, non-acid, ester lubricity improver which will not interact with lubricant or other fuel adulterants (e.g. addition of used lubricants)
- Caustic resistant corrosion inhibitor
- Contains antioxidants to protect thermal and oxidative stability
- Superior low temperature additive handling properties

Addition

Starrphyre 2400 may be continuously or batch blended into diesel fuel as a concentrate or as a stock solution. Verify that the additive is completely dissolved into the fuel.

Material Compatibility

Starrphyre 2400 is compatible with the following materials of construction: mild steel, aluminum, 304 stainless steel, 316 stainless steel, Teflon, and Viton. Do not use with Hypalon, ethylene, propylene, neoprene, Buna-N, or natural rubber. Copper, brass, or bronze (yellow metals) should not be used with neat additive.

Personal Safety, First Aid, Storage and Handling

DO NOT HEAT. Thermally decomposes above 248°F (120°C). Risk of explosion if heated under confinement. See the Material Safety Data Sheet and the current version of Innospec PLMR on Cetane Improver Safety and Handling for product specific information. This bulletin presents background information on thermal stability for storage and safe handling. This bulletin also describes proper equipment for safe unloading from bulk containers.

Typical Properties

Appearance	clear amber liquid
Specific Gravity, 60/60°F (15.6/15.6°C)	0.945
Density, lb./gal, 60°F, (15.6°C)	7.87
Flash Point, PMCC, °F (°C)	153 (67.2)
Pour Point, °F (°C)	<-40 (<-40)
Viscosity, cSt @	
100°F (37.8°C)	3
68°F (20°C)	5
32°F (0°C)	9
0°F (-32°C)	18
-20°F (-28.9°C)	31

Recommended Treat Rate

1 gallon : 1500 gallons, or 0.7 gallons : 1000 gallons, or 0.027 gallons : 40 gallons, or 667 mg/L

EPA Maximum Treat Rate: 1500 mg/L

