



Performance Specialties

Fuel Additive EC-1

EC-1 is a middle distillate winter flow improver additive. It functions as a wax modifier to improve low temperature operability and to enhance a wide spectrum of performance properties in low sulfur, and ultra-low sulfur diesel fuel.

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

EC-1 provides the following performance benefits:

- Lowers Cold Filter Plugging Point
- Lower Pour Point
- Prevents fuel gelling in low temperatures
- Disperses wax during extended engine shutdowns in cold climates
- Aids against fuel filter icing
- Water dispersant to help safely remove water on a gradual basis

Addition

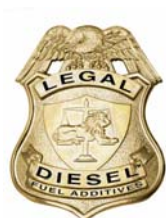
EC-1 may be continuously blended into diesel fuel as a concentrate or as a stock solution. Proper blending and handling procedures must be followed due to the nature of all low temperature operability additives. Blend the additive with the fuel at temperatures at least 10°F above the cloud point of the fuel. Ensure the additive is at or above the minimum handling temperatures to avoid potential performance issues. Verify that the additive is completely dissolved into the fuel.

Material Compatibility

EC-1 is compatible with the following materials of construction: mild steel, 304 stainless steel, 316 stainless steel, Teflon, and Viton. Do not use with Hypalon, polyethylene, polypropylene, neoprene, Buna-N, or natural rubber. Copper, brass, or bronze (yellow metals) should not be used with neat additive.

Personal Safety, First Aid and Storage and Handling

See the Material Safety Data Sheet for product specific information.



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.

In order to comply with EU regulations (Title II, Chapter 1, Article 8) and to secure documentation to allow this product to be imported into the EU please contact Innospec to join our "Only Representative" and Declaration of Conformity Program.

Typical Properties

Appearance	clear light yellow liquid
Specific Gravity, 60/60°F (15.6/15.6°C)	0.881
Density, lb./gal, 60°F, (15.6°C).....	7.33
Flash Point, PMCC, °F (°C).....	85 (29.4)
Pour Point, °F (°C)	<-40 (<-40)
Viscosity, cSt @	
100°F (37.8°C)	2
68°F (20°C)	3
32°F (0°C)	4
0°F (-17.8°C)	7
-20°F (-28.9°C)	11
-40°F (-40°C)	19

Recommended Treat Rate Range

1:1000 to 1:400 depending on severity of fuel and conditions

Registered EPA Maximum Treat Rate = 3600 mg/L

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

