



Refinery Specialties

Fuel Additive Stadis[®] 450

Stadis[®] 450 is a non-metallic product

that increases the electrical conductivity of distillate fuels and helps reduce hazards associated with mixing, transfer, and shipment of distillate fuels.

Application

Stadis[®] 450 is a distillate fuel additive that provides the following functional and performance properties:

- Superior low temperature conductivity retention
- Fully Compatible with other additives
- Pipe Line Use Accepted
- Consistent lot-to-lot performance
- Excellent low temperature handling
- Stable during storage
- Ashless - non-metallic

Aviation Approved for use in:

- JP-4 (MIL-T-5624)
- JP-8 (MIL-T-83133)
- NATO military fuels

Also accepted for use in aviation fuels meeting ASTM D910, ASTM D1655, MOD, CGSB, IATA Guidance Material, Joint Fueling System Checklist, and other requirements for aviation fuels.

Addition

Stadis[®] 450 may be continuously or batch blended into fuel as a concentrate or as a stock solution. Continuous dosing into the fuel is the preferred method of addition.

Material Compatibility

Stadis[®] 450 is packaged and shipped in EvOH containers, which has proven to be highly effective for long term storage and product integrity.

In addition, stainless steel tanks are preferred and recommended. Carbon steel is satisfactory if moisture is avoided.

Elastomeric gasket and seal materials must be resistant to aromatic solvents; Dupont Viton[®] and Teflon[®] are recommended.

Personal Safety, First Aid and Storage and Handling

See the Material Safety Data Sheet for product specific information

40CFR80 Compliance Statement:

Stadis[®] 450 contains a static dissipater additive having a sulfur content greater than 15 ppm.

40CFR80.614 allows the use of volumetric accounting reconciliation (VAR) to provide affirmative defense against presumptive liability for conductivity additives containing greater than 15 ppm sulfur.

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.

Technical Support: (302) 454-8100

Customer Service
Resource Center: (800) 441-9547

Stadis[®] 450 is manufactured to give standardized conductivity-improving performance and, therefore, physical properties may vary slightly. The following values are typical:

Typical Properties

Appearance	dark amber liquid
Specific Gravity, 60/60 °F (15.6/15.6 °C)	0.92
Density, lb./gal, 60 °F, (15.6 °C)	7.7
Flash Point, PMCC, °F (°C)	42 (6)
Ash Content, wt%	0.0
Miscibility with Hydrocarbons	complete
Viscosity, cSt @	
100 °F (38 °C)	7.5
32 °F (0 °C)	22
0 °F (-18 °C)	47
-30 °F (-34 °C)	116
Reid Vapor Pressure	
psi @ 100 °F (38 °C)	0.9

Typical Treat Range

0.1 — 1.0lbs / 1000 bbl (0.29 — 2.9 mg/L);
1.1—11.1 mg/L / 1000 gallons; or 0.0003-0.0031 gallons / 1000 gallons