

FUELS

AvGuard™ SDA

Aviation Fuel Additive



Static Dissipating Additive for Aviation Fuels

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Application

AvGuard™ SDA Aviation Fuel Additive is a highly effective solution for improving the conductivity of jet fuel but it can also be used in ultra-low sulphur diesel (ULSD) and gasoline (ULSG). Sulphur levels in fuel have been reduced globally to improve vehicle emissions and enable advanced exhaust treatment systems.

AvGuard SDA is approved for use in jet fuel specified against:

- ASTM D1655
- ASTM D7566
- US MIL-DTL-83133
- DefStan 91-091
- CAN/CGSB-3.23-2019
- CAN/CGSB-3.24-2019

Aviation turbine fuel produced against the DefStan 91-091 specification requires a conductivity of between 50 pS/m and 600 pS/m. Only aviation approved static dissipater additives such as AvGuard™ SDA can be used to achieve this.

Key Performance Benefits

- Increases conductivity performance in treated fuels including aviation turbine fuels
- Increases the rate of static discharge dissipation
- AvGuard™ SDA is completely compatible with other aviation approved static dissipater additives

Recommended Dosage

The treat-rate of AvGuard™ SDA in aviation fuels is up to 3 mg/l on initial dosing, with a maximum of 5 mg/l if redosing is required. For other fuels, the treat rate will depend on the severity of the fuel. Typical treat rates are between 1-5 ppmv. Please contact your local Afton Chemical Representative for specific treat rate recommendations.

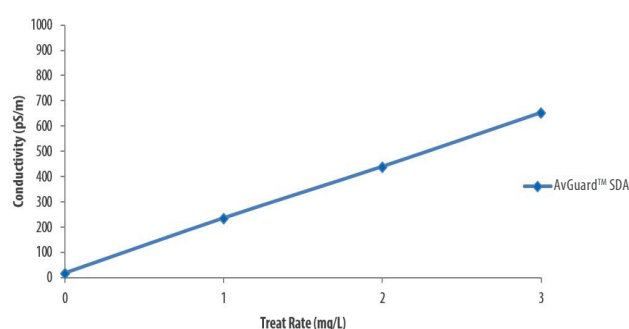
Typical Characteristics

Appearance	Yellow liquid
Density at 15°C, g/ml	0.92
Viscosity at 40°C, cSt:	48
Flash Point, °C (PMCC)	25 min.

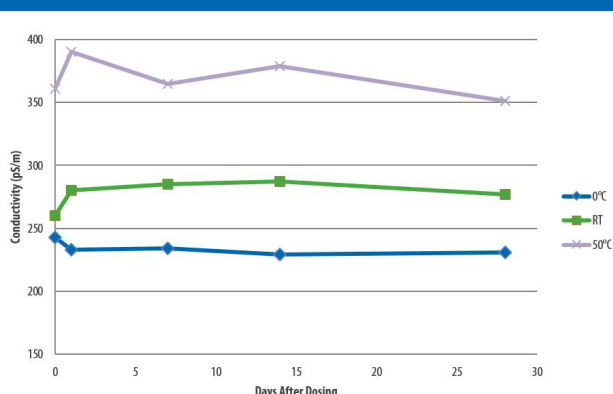
Handling Information

AvGuard™ SDA can be stored and injected at normal ambient temperatures or diluted for improved handling and injection as required.

Conductivity Response of AvGuard™ SDA



Average Conductivity in 15 Jet Fuels



Conductivity of Commingled Fuels

