

FUELS

AvGuard™ CI/LI

Refinery and Distribution Fuel Additive



Corrosion Inhibitor/Lubricity Improving Additive

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Application

AvGuard™ CI/LI is the latest and most modern QPL-25017 registered corrosion inhibitor and lubricity improving additive, designed and approved for use in military jet fuel and multi-product pipeline applications. AvGuard™ CI/LI is certified as a Biobased Product through the USDA's BioPreferred® programme.

Key Performance Benefits

Jet Fuel

- Approved under MIL-PRF-25017 and registered on U.S. Military Qualified Products List, QPL-25017, Category 1
- Miscible with aviation Fuel System Icing Inhibitor (FSII)

Pipeline

- Suitable in pipelines designed for the transportation of light petroleum products
- Minimises corrosion and the formation of corrosive products
- Minimises risk of pipeline filter and pump blockages due to products of corrosion
- Good low temperature properties permitting ease of application
- Approved on Colonial and Buckeye Pipeline systems in the U.S.

Recommended Dosage

The aviation approved treat rates for AvGuard™ CI/LI are as follows:

Relative Effective Concentration (REC):	6 mg/l (g/m ³)
Minimum Effective Concentration (MEC):	9 mg/l (g/m ³)
Maximum Allowable Concentration (MAC):	24 mg/l (g/m ³)

The treat rate for AvGuard™ CI/LI additive as a corrosion inhibitor will vary based upon desired performance and fuel characteristics. The typical range is 3 to 9 ppmv, with a recommendation of 6 ppmv. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Appearance	Clear amber liquid
Density at 15°C, g/ml	0.935
Viscosity at 40°, mm ² /s	164 max
Flash Point, °C (PMCC)	25 min.

Handling Information

Max Handling Temp: 40°C
Shelf Life: 84 months

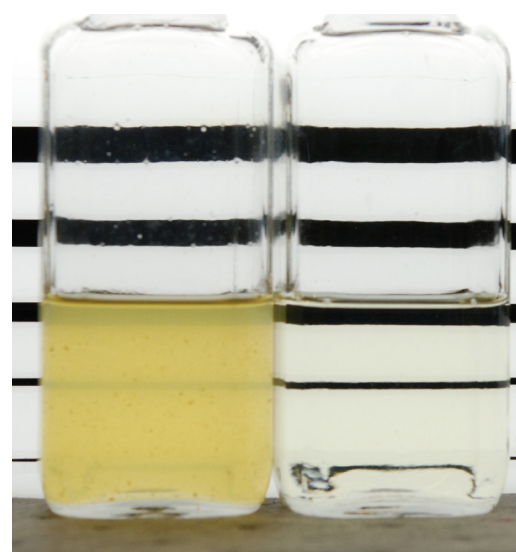
NACE Standard TM 172-2001



Base Fuel

AvGuard™ CI/LI @ 6 mg/l

Compatibility with Fuel System Icing Inhibitor (FSII)



Competitor CI/LI

AvGuard™ CI/LI