

FUELS

BioTEC[®] 9880

Specification and Distribution Additive



Corrosion Inhibitor for Ethanol and Ethanol Blended Gasoline

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BioTEC
Performance Additive Solutions

Key Performance Benefits

BioTEC® 9880 performance additive is the most powerful corrosion inhibitor available for use in ethanol. BioTEC® 9880 additive prevents rust formation in storage facilities, pipelines, pumps and in the vehicle and engine which can form because of ethanol and its hygroscopic nature. BioTEC® 9880 additive continues to perform when blended into E85, E10, E5 and E3.

BioTEC® 9880 additive demonstrates excellent corrosion protection throughout the supply chain as demonstrated by:

- NACE modification TM-0172-2001
- ASTM D655A

Benefits include:

- Maintains engine performance by not contributing to Inlet Valve Deposits (IVD)
- EPA registered
- Fully compatible with conventional gasoline additives
- Approved by the Renewable Fuels Association -

Fuel Ethanol Guidelines, Specifications and Procedures #960501

Recommended Dosage

The recommended treat-rate for BioTEC® 9880 additive is 30 ppmv in neat ethanol (E100). This dosage will give excellent protection in fuel grade ethanol or gasoline blends down to E3. Corrosion protection is fuel specific and can vary with test conditions. Treat-rates may vary depending on base fuels. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Appearance:	Yellow liquid
Density at 15° C, g/ml:	0.95
Density, lbs/gal:	7.90
Flash Point, °C (PMCC):	62 min.
Pour point, °C:	< -32
Kinematic Viscosity at 30° C, mm ² /s:	65
Kinematic Viscosity at 0° C, mm ² /s:	530

Handling Information

Max Handling Temp: Please inquire

Shelf Life: 48 months

Due to the relatively high viscosity at low temperatures, BioTEC® 9863 additive may require heating depending on ambient temperatures.

BioTEC® 9880 Protects Against Corrosion



Base Gasoline + 10% Ethanol + 30 ppm BioTEC® 9880
0% Rust, A-Rating



Base Gasoline, 100% Rust, E-Rating

BioTEC® 9880 Pour Point Response in RME and FAME Blend

