



GuardION™

LOW CONDUCTIVITY ANTIFREEZE/COOLANT

Tailored Performance:

- Low conductivity coolant-Initial Conductivity <5 µS (microsiemens)
- Suitable for use in Fuel Cell Electric (FCEV) and Battery Electric Vehicle (BEV) applications requiring low conductivity coolant
- Low conductivity coolants are designed for use with passivated heat exchangers. Use in systems with un-passivated heat exchanges will impact conductivity.
- Provides Freeze and Anti-boil protection
- Provides general corrosion protection-suitable for use with Aluminum, Steel, Copper, and Brass

Dependable Solutions:

- Available in 50/50, Ready to use dilution
- Product should not be mixed with traditional antifreeze/coolant products

Simple Serviceability:

- Use of a de-ionization filter extends coolant service
- Test coolant conductivity to determine end of life



GuardION

EG 50/50 Premix

55 Gallon Drum (208 L)

CC36206 USD

Available in US/CAN. For availability in other regions or bulk opportunities please contact your local Fleetguard representative.

Specifications

Characteristic	Performance Standard	GuardION 50/50
Color	Visual	Clear
Specific Gravity 20 °C	ASTM D1122	1.06-1.08
pH	ASTM D1287	5.0-6.0
Electrical Conductivity (20 °C)	ASTM D1125	5.0 max
Freeze Point °C	ASTM D1177	-37 max
Boiling Point °C	ASTM D1120	108 min
Total Glycol by Weight	ASTM D3695	49-52
Glassware Corrosion Test	Modified ASTM D1384	PASS
Aluminum Corrosion Test	Modified ASTM D4340	PASS
Elastomer Compatibility	ASTM D 412, D 2240	PASS

Most traditional diesel engine coolants have a conductivity of 2,000-5,000 μS (microsiemens). Fuel Cell Electric Vehicles require a much lower conductivity to prevent damage to the system. The GuardION low conductivity fluid not only starts out with an initial low conductivity but has been tested to evaluate ion accumulation and electrical conductivity over time.



Metal Immersion Testing

Copper, Brass, Stainless Steel and Aluminum coupons were submerged in GuardION for 1000 hrs at 100C. Conductivity was measured every 250hrs. Coupon weightloss and glycol degradation were evaluated at the end of test.



Extended Thermal Stability Testing

Copper Brass Stainless Steel and Aluminum coupons were submerged in GuardION for 2000 hrs at 100C. Conductivity was measured every 250 hrs. Coupon weightloss and glycol degradation were evaluated at the end of test.

