



Shell ROTELLA® ELC Correction Fluid

Shell ROTELLA® ELC Correction Fluid is an ethylene glycol water based corrosion inhibitor concentrate designed to correct corrosion inhibitor levels in ROTELLA ELC® NF in cases where the corrosion inhibitor levels may have been reduced by service, or contamination / dilution with foreign coolants. Shell ROTELLA® ELC Correction Fluid does not contain nitrite, nitrate, phosphate, borate, amines or silicates.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Restore and fortify ROTELLA ELC® NF corrosion inhibitors which have been reduced through service and/or by contamination/dilution with foreign coolants to new levels.
- Provides satisfactory complete corrosion protection for all cooling system metals including aluminum, iron, steel, copper, brass, and solder alloys.

- Shell ROTELLA® ELC Correction Fluid is part of the Shell family of lubricants and coolants for the trucking industry.

Specifications, Approvals & Recommendations

- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

Main Applications

- Shell ROTELLA® ELC Correction Fluid is intended for use by customers as a quick and easy method to restore corrosion inhibitor levels to new satisfactory levels and/or correct corrosion inhibitor levels in Shell ROTELLA® ELC NF in cases where corrosion inhibitor levels may have been reduced by contamination/dilution with foreign coolants.

Typical Physical Characteristics

Properties		Method	Shell ROTELLA® ELC Correction Fluid
Appearance		Visual	Red
Specific Gravity	15.6°C	ASTM D1122	1.10
pH	(5 vol% in DI water)	ASTM D1287	8.5
Density	@15.6°C lb/US gal.	Conversion	9.22

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

Shell ROTELLA® ELC Correction Fluid is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from www.epc.shell.com

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.

- **Directions on Use**

Before Use: Prior to application of Shell ROTELLA® ELC Correction Fluid to a vehicle's cooling system, the used coolant is to be tested for condition and OAT corrosion inhibitor levels. Shell technical representatives will provide guidance on testing using Shell approved test strips and/or laboratory testing to determine the freeze point, nitrite, and corrosion inhibitor levels. If the coolant currently in the vehicle fails to meet any of the following criteria, its condition is considered not acceptable and the system should be completely flushed and with new ROTELLA® ELC NF.

Used Coolant Criteria:

- Freeze point between -13° and -60° F (Glycol between 40-60%)
- pH between 7 and 10

Note: Freeze point shall be corrected to -34°F of pre-diluted 50/50 level with exception in very cold climate where 60/40 may be desired.

How Much to Use: The recommended treatment of Shell ROTELLA® ELC Correction Fluid needs to follow the following steps:

1. Determine the size of the cooling system.
2. Using the table below, add the recommended amount of Shell ROTELLA® ELC Correction Fluid per cooling system size.
3. After Shell ROTELLA® ELC Correction Fluid is added, run the engine for at least 30 minutes prior to coolant sampling to insure complete mixing. A sample of treated coolant should be either tested with a Shell approved test strip or submitted for laboratory analysis to insure that the Shell ROTELLA® ELC Correction Fluid has been added properly.
4. If a failing condition is observed from the test strip or laboratory analysis, repeat the Steps 2&3 by adding the same amount of Shell ROTELLA® ELC Correction Fluid and retest with the test strip or submitted for laboratory analysis.
5. If the corrected coolant shows failing condition again from the test strip or laboratory analysis, the cooling system may require a complete flush and fill with Shell ROTELLA® ELC NF.

Doseage rate of Shell ROTELLA® ELC Correction Fluid to add in to the used coolant:

For cooling system capacity 0-4 gallons, dose is 1.0 quart

For cooling system capacity 4-8 gallons, dose is 1.5 quarts

For cooling system capacity 8-12 gallons, dose is 2.0 quarts

For cooling system capacity 12-16 gallons, dose is 2.5 quarts

The resultant corrosion inhibitor level of the treated coolant is corrected to the appropriate level in the cooling system. Of course, any traditional inhibitors and contaminants are still present in the cooling system.