



Product description

Delo[®] FleetFix[®] CME has been formulated to provide an easy conversion, maintenance and extender formula in one package to help customers either convert to or maintain Delo ELC performance levels in their coolant systems for diesel engines.

Customer benefits

Delo[®] FleetFix[®] CME delivers value through:

- **Beneficial Formulation** – The concentrated corrosion inhibitor are diluted in a 50/50 mix of water and ethylene glycol. Use of Delo FleetFix CME will not affect the freeze point of a cooling system for either conversion/maintenance/extender as long as the cooling system is currently at 50/50 dilution.
- **Easy to Use** – Delo FleetFix CME is easy to use, simply add to the cooling system at the appropriate level, whether it is being used as an extender, maintenance fluid or converting a system to Delo ELC. The Chevron Kool Tools Kit contains easy to use recommendation charts to assist with conversion/maintenance/extending Delo ELC and protecting your cooling system.
- **Long Service Life** – When using Delo FleetFix CME properly, the Delo ELC coolant will have a service life of 600,000 miles/1,000,000 km/12,000 hours/6 years if correct top-up and maintenance practices are followed.
- **Wide Service Application** – The Delo FleetFix CME product can be used by customers with on-road, off-road or industrial cooling systems

WARNING: Even-though Delo Fleetfix CME contains glycol and water, it should not be used as a coolant/antifreeze. Delo FleetFix CME is to be used only as an extender, maintenance or conversion fluid.

A **Chevron** company product



Applications

Conversion:

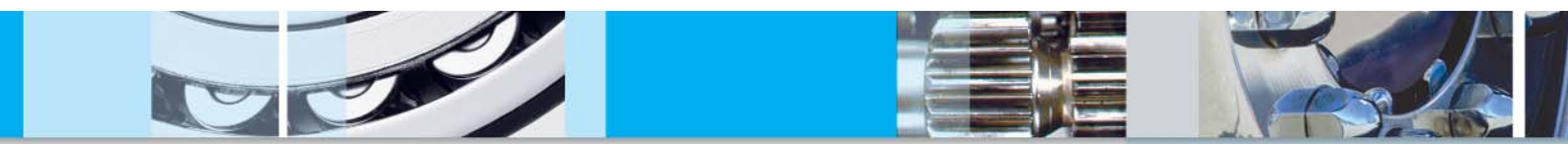
Delo FleetFix CME is easy to use but requires a different process than the one used for a conversion done draining, flushing and refilling or just draining and filling. The cooling system should be cool (<100°F/38°C) before beginning the conversion procedure.

General Delo Fleetfix CME conversion steps:

Step 1: Pre-test the coolant in service that is going to be converted. During this step the coolant that is going to be converted to Delo ELC needs to be tested for freeze point, pH and nitrite levels using the Delo ELC Coolant Maintenance Kit and Kool Tools reference materials. If the tested coolant passes, then go to step 2. If coolant fails the pre-test, then the reason for failure should be identified and corrected. The cooling system should be then drained, flushed and refilled with a fresh charge of Delo ELC Antifreeze/Coolant - Premixed 50/50.

Step 2: Add Delo FleetFix CME. Delo FleetFix CME should be added based on the cooling system capacity. One gallon (4 quarts) of Delo FleetFix CME should be added for every 9-12 gallons (34-45liters) of cooling system capacity. The chart below will help determine how much Delo FleetFix CME needs to be added.

| Cooling System Capacity | | |
|-------------------------|----------------|--------------------------|
| Gallons | Liters | Delo FleetFix CME needed |
| 6-8 gallons | 23-30 liters | 3 quarts |
| 9-12 gallons | 34-45 liters | 4 quarts |
| 13-21 gallons | 49-79 liters | 5 quarts |
| 22-30 gallons | 83-114 liters | 6 quarts |
| 31-40 gallons | 117-151 liters | 7 quarts |
| 41-51 gallons | 155-193 liters | 8 quarts |



continued

Step 3: Take a sample of the converted coolant. This is done to ensure the conversion process was done correctly. The post test will evaluate the converted coolant for freeze point, pH, nitrite and carboxylate levels. Carboxylates are the corrosion inhibitors found in Delo® ELC Antifreeze/Coolant. The post test of the converted coolant will identify if the pre-test was done correctly and if enough Delo® FleetFix® CME was added. The results of the conversion test will provide instructions to the customer on how to solve any issues that might arise. Another benefit of the post conversion test is that it will provide to both the customer and Chevron a baseline of the converted coolant condition.

Step 4: Attach a Delo ELC Premixed 50/50 Smartfill label. These are found in Delo ELC Coolant Maintenance Kit to show that the Radiator system has been converted to Delo ELC Premixed 50/50. These labels should be attached to the coolant addition port and be visible to anyone doing cooling system maintenance. These labels should be attached to a clean surface to improve adhesion.

Extender:

Delo FleetFix CME is also specifically formulated to work with Delo ELC and should be added at 500,000 miles, 800,000 km, 10,000 hours or 4 years in order to obtain a service interval of 1,000,000 miles, 1,600,000 km, 20,000 hours or 8 years.

| Quantity of Delo FleetFix CME needed at 500,000 miles (800,000 km) of on-road use (4 years or 10,000 hours of off-highway use) | | |
|---|---------------|-----------------------------------|
| Cooling System Capacity | | Delo FleetFix CME Quantity |
| gallons | liters | quarts |
| 6-8 | 23-30 | 1 quart |
| 9-12 | 34-45 | 1.5 quarts |
| 13-21 | 49-79 | 2 quarts |
| 22-30 | 83-114 | 2.5 quarts |
| 31-40 | 117-151 | 3 quarts |
| 41-51 | 155-193 | 3.5 quarts |
| 52-64 | 197-242 | 4 quarts |



continued

Maintenance:

Cooling systems converted to Delo ELC will require the same maintenance regardless of the conversion method used. In general, there are two maintenance steps that are required when using Delo ELC Antifreeze/Coolant - Premixed 50/50.

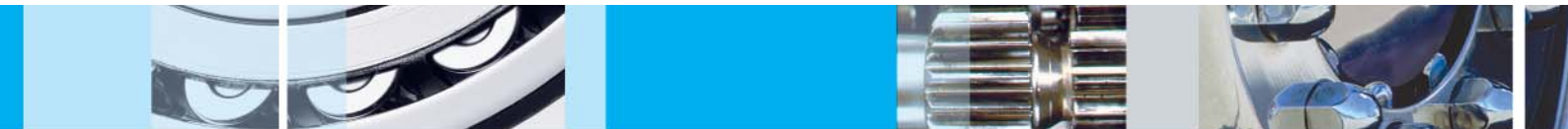
Step 1: Use only Delo ELC Antifreeze/Coolant - Premixed 50/50 for top up. If the Delo ELC Antifreeze/Coolant - Premixed 50/50 has been mixed with another coolant (assuming less than 25% mixture in the cooling system), then Delo FleetFix CME can be added to help return the mixed coolant back to the performance properties of Delo ELC Antifreeze/Coolant - Premixed 50/50.

Step 2: Check the freeze point, pH and nitrite levels of the coolant at least two times per year or at every PM. In order to reduce the likelihood of contamination/dilution it is recommended that:

- All non-Delo ELC coolants are to be removed from the maintenance shop.
- All chemical water filters or liquid SCAs are to be removed from the maintenance shop.
- Use the Delo ELC Coolant Maintenance Kit to help set up a best class coolant maintenance program to achieve the optimal performance life of Delo ELC Antifreeze/Coolant - Premixed 50/50.

If a fleet is having problems with contamination/dilution of Delo ELC with other products, then the customer should consider the use of one of these approved methods for testing:

- On-site testing options. Use the Delo FleetFix carboxylate test strips to check carboxylate levels. If this fails, then move to the Delo FleetFix ELC Dilution test kit to check level of contamination and determine the correct steps for fixing the coolant system.
- Mail-in testing. Mail-in coolant sample kits are available through Chevron or its Lubricant Marketer channels. Each kit contains 10 tests. Two testing levels are available. The Extended Life Coolant Advanced Program will evaluate the coolant sample for pH, freeze point, % water, nitrite, carboxylates, chloride, silicate, phosphate, molybdate and various metals.



Product recommendations and approvals

Cooling systems converted using Delo® FleetFix® CME will meet the performance requirements of most major U.S. OEMs. This process has been used successfully in major engine types including **Detroit Diesel, Caterpillar, Cummins, International, Mack and Volvo.**

Typical test data

| DELO FLEETFIX CME | RESULTS |
|--------------------------|---------------|
| Product Number | 510695 |
| MSDS Number | 40262 / 40263 |
| Appearance | Bright Red |
| Freezing point (as sold) | -34°F (-37°C) |

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by Chevron Lubricants; Africa, Middle East and Pakistan.

Environment, Health and Safety Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com.

For more information, go to www.chevronlubricants.com