



DELO® FLEETFIX® CMX

PRODUCT DESCRIPTION

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

CUSTOMER BENEFITS

- **Easy to Use** — Simply add Delo Fleetfix CMX to the cooling system at the appropriate level, whether it is being used as an extender, maintenance fluid or converting a system to Delo XLC. The Chevron Kool Tools Kit contains easy to use recommendation charts to assist with conversion/maintenance/ extending Delo XLC and protecting your cooling system.
- **Convenient Packaging** — Delo FleetFix CMX is available in 12/1 quart cases and can be used straight out of the box at the recommended level based on the cooling system requirements.
- **Long Service Life** — When using Delo FleetFix CMX properly, the Delo XLC coolant will have a service life of 1,200,000 miles / 1,900,000 km / 20,000 hours, or 8 years, if correct top-up and maintenance practices are followed.
- **Wide Service Application** — The Delo FleetFix CMX product can be used by customers with on-road, off-road or industrial cooling systems.
- **Delo FleetFix CMX Color** — Is clear to allow for ease of mixture with various color dyes that may be found in cooling systems.

WARNING: Delo FleetFix CMX was not developed as an antifreeze/coolant, it is to be used only as an extender, maintenance or conversion fluid.

APPLICATIONS

Conversion: Delo FleetFix CMX is easy to use but requires a different process than the one used for a conversion done by 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 CMX conversion steps:

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

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

Cooling System Capacity		
Gallons	Liters	Delo FleetFix CMX needed
1–5 gallons	4–19 liters	2 quarts
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

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

1 March 2018
COOL-25

© 2015-2018 Chevron U.S.A. Inc. All rights reserved.

Chevron, the Chevron Hallmark, Delo and FleetFix are trademarks owned by Chevron Intellectual Property LLC. All other trademarks are property of their respective owners.

Step 3: Take a sample of the converted coolant. This is done to ensure that the conversion process was done correctly. The post test will evaluate the converted coolant for freeze point, pH, and carboxylate levels. Carboxylates are the corrosion inhibitors found in Delo® XLC Antifreeze/Coolant. The post test of the converted coolant will identify if the pre-test was done correctly and if enough Delo FleetFix® CMX 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 XLC Premixed 50/50 Smartfill label. These are found in the Delo XLC Coolant Maintenance Kit to show that the coolant system has been converted to Delo XLC 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 CMX is also specifically formulated to work with Delo XLC and should be added at 600,000 miles / 960,000 km / 10,000 hours, or 4 years, in order to obtain a service interval of 1,200,000 miles / 1,900,000 km / 20,000 hours or 8 years.

Quantity of Delo FleetFix CMX needed at 600,000 miles / 960,000 km of on-road use (4 years or 10,000 hours of off-highway use)		
Cooling System Capacity		Delo FleetFix CMX Quantity
gallons	liters	
1-5	4-19	0.5 quart
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

Maintenance:

Cooling systems converted to Delo XLC will require the same maintenance regardless of the conversion method used.

In general, there are two maintenance steps that are required when using Delo XLC Antifreeze/Coolant - Premixed 50/50.

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

Step 2: Check the freeze point and pH 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 XLC 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 XLC Coolant Maintenance Kit to help set up a best in class coolant maintenance program to achieve the optimal performance life of Delo XLC Antifreeze/Coolant - Premixed 50/50.

If a fleet is having problems with contamination/dilution of Delo XLC 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 XLC 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.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

PRODUCT RECOMMENDATIONS AND APPROVALS

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

PRODUCT REFERENCE

Product Number 227019
SDS Number 43277
Delo FleetFix CMX

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

1 March 2018
COOL-25

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

1 March 2018
COOL-25