

DELO[®] ELC ADVANCED ANTIFREEZE/COOLANT

Product Information Sheet



Many OEMs recommend a nitrated coolant to address proper engine protection for cavitation. In modern engine design, cooling systems have had to adapt by using different and lighter metal alloys that negatively react to coolant additives. With 40% of engine failures related to issues with cooling systems¹, many maintenance plans mistakenly do not include a robust coolant system maintenance schedule. In addition, organizations often carry multiple coolant options to meet OEM specifications, but this can cause your operation to spend more capital for product to be inventoried.

WHY CHOOSE DELO ELC ADVANCED?

Delo ELC Advanced products are a next-generation, ethylene glycol-based NOAT (Nitrated Organic Additive Technology) formulation designed to provide excellent extended life coolant system protection in diesel, natural gas and CNG engines for both on- and off-road applications. The versatile formula can be used in a wide variety of applications, making it a simple solution for mixed construction fleets. The unique antifreeze/coolant mix contains a patented corrosion inhibitor technology that reduces the negative reactions with brazed aluminum radiators and engine components, keeping your coolant system doing what it's supposed to do—controlling temperatures to extend system and coolant life.

BENEFITS

Control operating costs

Eliminates the time and cost associated with using radiator conditioners and other supplemental coolant additives (SCAs)

Manage mixed fleets

Patented formula allows optimal performance in variable applications

Reduce unplanned downtime

Mitigates risk of overheating due to reduced heat transfer and/or silicate and other SCA deposit formation; offers improved linear pitting performance compared to previous-generation extended life coolants (ELCs)

Keep moving in extreme conditions

Compatibility with CAB (Controlled Atmosphere Brazing)-manufactured components protects aluminum in high-temperature operating conditions

Maintain optimal performance

Neutralizes the drivers of pH shift to maintain coolant stability; reduces nitrite depletion for optimal system performance

Go further between service intervals

No SCAs required to reach service life of 1,000,000 miles/1,600,000 km on-road use/20,000 hours off-highway use, or 8 years*

Increase flexibility with compatibility

Compatible with other coolant formulations and supplemental coolant additives; improved elastomer compatibility with new mix of inhibitors package**



Available in Premixed 50/50 and concentrate.

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Meet environmental requirements

Biodegradable in its unused form; phosphate, borate, silicate, 2EHA and amine free

Protect your components

Reduce damage related to rust, corrosion, and pitting

APPLICATIONS

- Heavy duty engines regardless of fuel type or environmental controls being used where the OEM recommends a silicate-free, extended life coolant that contains nitrites
- Mixed fleets where both light duty and heavy duty trucks are present
- Stationary engine applications regardless of fuel type being used
- Marine cooling systems where freeze protection is needed and a nitrite containing coolant is recommended

SPECIFICATIONS AND OEM CLAIMS

Delo ELC Advanced Antifreeze/Coolant meets or exceeds the specifications of:

- ASTM D6210
- ASTM D3306
- Caterpillar EC-1
- Cummins CES 14439
- Deutz DQC CB-14
- TMC RP 364, 351 (color)
- Phosphate-free requirement of European OEMs

Silicate-free requirement of Japanese OEMs. Delo ELC Advanced Antifreeze/Coolants are recommended for these heavy duty diesel engine models (always check OEM recommendations):

- Caterpillar Stationary Natural Gas Engines
- Cummins QSK, QST, ISX 15, ISX, ISM, ISL, ISC and ISB Diesel Engines
- Cummins Westport ISX 12G and ISL G CNG engines
- Detroit DD15, DD13, Series 60, MBE 4000, MBE 900 Engines
- Freightliner and Western Star Truck Diesel Engines
- GE - Jenbacher Stationary Natural Gas Engines
- Hino Truck Diesel Engines
- Isuzu Truck Diesel Engines
- Kenworth and Peterbilt Truck Diesel Engines
- Kobelco Construction Equipment Diesel Engines
 - Komatsu Construction Equipment Diesel Engines
 - Mack MP8, MP7 Engines
 - MTU 4000 Diesel Engines
 - Navistar CEMS B1 Type 3
 - PACCAR MX, MX13 Engines
 - Scania and MAN Truck Diesel Engines
 - Volvo and Mack Truck Diesel Engines
 - Wärtsilä Stationary Diesel Engines
 - Waukesha Stationary Natural Gas Engines
- White-Superior Stationary Natural Gas Engines

¹Source: <https://polarislabs.com/cooling-system-dos-and-donts/>

*When properly maintained. Routine visual inspections, coolant top-off and annual laboratory testing are recommended to maximize service life.

**Chevron recommends that this product not be diluted by more than 25% with other coolant formulations. Dilution by more than 25% will reduce extended life performance

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