Product information

SHELL ROTELLA® EXTENDED LIFE COOLANT NITRITE FREE

DESIGNED TO MEET CHALLENGES

Shell ROTELLA® Extended Life Coolant Nitrite Free (ELC NF) both concentrate and pre-diluted versions is based on proven Shell ROTELLA® ELC Antifreeze/Coolant (AFC) technology for extended life operation in medium and heavy duty diesel, gasoline, LNG, and natural gas vehicles and engines. This versatile formulation may also be used in passenger cars and light duty trucks.

The nitrite free formulation provides improved protection of aluminum components including modern brazed aluminum heat exchangers and meets many of the newest OEM specifications.

DESIGNED FOR PERFORMANCE

Shell ROTELLA® ELC NF is designed for extended life operations while providing outstanding protection of all engine and cooling system metals against the effects of extreme heat, rust, and corrosion. The level of protection in brazed heat exchangers exceeds that of nitrited AFCs which may react with residue left from the brazing operations. This helps reduce the chance of costly repairs as well as maintenance related equipment downtime.

KEY BENEFITS

- Outstanding Heat Transfer – Superior heat transfer to conventional coolants
- Extended Life Capability – Up to 1,200,000 miles or 24,000 hours in Class 8 trucks*, up to 600,000 miles or 12,000 hours in other commercial applications, or 150,000 miles (6 years) in passenger cars and light trucks
- Compatibility with Other Coolants – Miscible and compatible with other extended life AFC
- No SCA or Extender Use Required for the life of the coolant
- Excellent Cavitation (Pitting) Protection – excellent protection against cavitation related damage on cylinder liners.
- Excellent Corrosion Protection – corrosion protection of aluminum, brass, copper, iron, solder, and steel.

A PREMIUM EXTENDED LIFE ANTIFREEZE/ COOLANT FOR MODERN ENGINES

Shell ROTELLA® ELC NF is designed for modern engines with higher output, aluminum radiators (heat exchangers), and the latest OEM specifications requiring nitrite free AFC. Fully capable for extended life performance, these AFCs provide service for mixed fleets that may include some passenger cars and light duty trucks.

Meeting specifications such as Detroit Diesel 93K217, Cummins 14439 and Navistar MPAPS B-1 Type III, Shell ROTELLA® ELC NF provides the performance needed for your vehicle or stationary engine that requires an Organic Additive Technology (OAT) type antifreeze/coolant. It is also suitable for conversion of existing equipment from nitrited or conventional AFC to nitrite free, extended life performance.

*Requires full use of Shell Rotella® ELC Nitrite-Free 50/50 Coolant + Antifreeze in the system and proper maintenance. Proper maintenance as detailed at shell.us/coolants. Follow OEM recommendations for specified maintenance.

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SPECIFICATIONS AND APPROVALS

Shell ROTELLA® ELC NF meets industry required ASTM D3306, D4985 and D6210 and TMCRP 329 and RP 364 requirements.

Shell ROTELLA® ELC NF also meets the following manufacturer's specifications:

- Detroit Diesel 93K217
- Cummins 14439[1]
- Mack Truck
- Navistar MPAPS B-1 Type III
- PACCAR
- Volvo TSI 184-001

[1] Approved for use in all Cummins medium and heavy duty on-road and off-road engines where CES 14439 coolants are specified

Shell ROTELLA® ELC NF meets the equipment protection and performance requirements of:

- Ford WSS-M97B44D
- GM 6277M

APPLICATIONS

Developed for medium and heavy duty commercial engines in on and off road equipment where OAT antifreeze/coolants are used. Consult the Shell Technical Help Desk for questions on specific applications in large stationary engines or large earth moving equipment. The nitrite free chemistry is suitable for passenger cars and light trucks for mixed fleets where OAT antifreeze/coolants are used and where replaced in vehicles with a complete coolant change to Shell ROTELLA® ELC Nitrite Free. Suitable for engines powered by diesel, gasoline, LNG, CNG, waste natural gas and biofuels. Available in concentrate and 50/50 Pre-dilute in gallon bottles, drums and bulk in the United States.

For more information, please contact your Shell Lubricants representative