

# THE RIGHT COOLANT FOR EVERY OPERATION

SHELL LUBRICANTS' SPECIALLY FORMULATED COOLANTS MAINTAIN PERFORMANCE AND REDUCE MAINTENANCE OF TODAY'S INCREASINGLY COMPLEX AND POWERFUL ENGINES.



## WHAT DO COOLANTS DO?



Remove excess heat by circulating through an engine's radiator.



Prevent freezing and boil-over damage in extreme temperatures.



Protect metals in an engine's cooling system against corrosion.

## WHY DOES COOLANT TYPE MATTER?

Various engine coolant formulas in use today contain different additives to protect against engine corrosion. Coolant types are NOT interchangeable and generally should NOT be mixed. Shell coolants are formulated to protect many different types of cooling systems and have demonstrated excellent performance across a range of vehicle makes and models. Shell Rotella® Extended Life Coolants (ELC) are designed for modern, hotter-running engines that operate under the most severe conditions.



### SHELL ROTELLA® ELC NITRITE FREE\*

Ideal for mixed fleets, including commercial heavy-duty (HD) diesel and natural-gas trucks, light-duty trucks, and automobiles.



### SHELL ROTELLA® ELC

Designed for both on-road and off-road HD diesel, gasoline, and natural-gas-powered engines.



### SHELL HD PHOSPHATE FREE AFC

Conventional Fully Formulated antifreeze/coolant pre-charged with supplemental coolant additives (SCAs). Regular maintenance is required. Meets D6310 and TMC 329A specs.



### SHELLZONE® DEX-COOL® EXTENDED LIFE\*

Designed for automotive engines and many electric and hybrid vehicles to provide superior protection against corrosion, freezing and boilover. Approved for GM DEX-COOL® applications.



### SHELLZONE® MULTI-VEHICLE EXTENDED LIFE\*

ELC AFC protects automotive and light-truck engines year-round from freezing and overheating and offers corrosion protection for aluminum, brass, cast iron, copper, steel, and solder.



### SHELLZONE® ANTIFREEZE/ENGINE COOLANT

Conventional light duty, low silicate AFC designed for light duty cars and trucks. Suitable for HD diesel engines when treated with SCAs and maintained regularly.

## \*INDUSTRY DRIVING NEED FOR NITRITE-FREE COOLANTS.

Today's modern engines generally contain more aluminum components, such as radiators, heater cores, and oil coolers. Nitrite commonly found in traditional coolants and certain extended-life coolants can react with aluminum parts to form ammonia, which increases risk of cooling-system failure.

### THE NITRITE FREE SOLUTION

The primary purpose of nitrite in a coolant is to protect the cylinder liner from pitting. The Shell ELC Core technology offers this same protection without the harmful effects of nitrite. Shell Rotella® ELC Nitrite Free works in most heavy-duty engines and is designed for mixed fleets.



**SHELL**  
**LUBRICANT**  
**SOLUTIONS**

### BENEFITS INCLUDE:



**Corrosion protection**—even at high temperatures—for all metal components, especially aluminum.



**Extended water-pump life**, thanks to the absence of abrasive silicates.



**Improved performance and heat transfer**; reduced pitting of metal surfaces.



**Extended coolant life**—to 1,200,000 miles or 24,000 hours of operation<sup>1</sup>—reducing maintenance costs and downtime.

<sup>1</sup> Shell Rotella® ELC Nitrite Free may be used up to 1,200,000 miles or 24,000 hours of operation in Class 8 trucks reducing maintenance costs and downtime compared to conventional, fully formulated AFCs. 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](http://shell.us/coolants). Follow OEM recommendations for specified maintenance. Passenger car maintenance and other commercial application requirements vary.