

# **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE/SUMMER COOLANT CONCENTRATE**

**THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** is a fully formulated, precharged extended life antifreeze that contains the initial charge of supplemental coolant additive (SCA). It was developed to allow the antifreeze to meet the myriad of specifications in the extended life category of antifreezes. **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** is a hybrid and nitrated organic acid technology (HOAT/NOAT) additive system, containing both carboxylic acids (OAT technology) and azoles/inorganic salts (conventional technology). While OAT-only antifreezes have compatibility problems with conventional antifreeze formulations, HOAT formulations are compatible with OAT, HOAT, NOAT (nitrated organic acid technology) and conventional azole/inorganic salt type antifreeze/coolants.

**THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE 100%** contains a minimum of 2400 ppm nitrite. It is phosphate, 2EHA, silicate and amine/triethanolamine-free. **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** is suitable for passenger cars, vans, SUV's, light trucks, and heavy-duty vehicles. It will demonstrate outstanding aluminum corrosion control in addition to superior protection for copper, brass, solder, steel and cast iron. **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE's** substantial nitrite content will also control pitting/cavitation damage to diesel engine wet sleeve cylinder liners. **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** will have a service life of 600,000 miles with the addition of an additive booster at 300,000 miles. The service life can be extended to one million miles by monitoring the coolant every 300,000 miles. In off-road service, **THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** will provide a service life of 12,000 hours, or 6 years, whichever comes first. At every oil change the antifreeze should be checked to ensure that the pH is in proper range and that the sample is free of significant precipitates, suspended solids, cloudiness or contamination. This product mixes with any other color of antifreeze.

## **THERMOGUARD UNIVERSAL EXTENDED LIFE 100% ANTIFREEZE SPECIFICATIONS**

Specific Gravity @ 70°F/21°C	1.110 – 1.145
pH	9.9 – 10.9
Reserve Alkalinity	6 ml min.
Freeze point @ 50%	-34°F (-36°C) max.
Color:	Gold

**THERMOGUARD UNIVERSAL EXTENDED LIFE ANTIFREEZE** meets the following specifications:

- ASTM D - 3306
- ASTM D - 4985
- ASTM D - 6210
- Caterpillar DEAC
- Chrysler MS9769
- Cummins CES14603
- Detroit Diesel 7SE298, DDC 93K217
- EMD M.I. 1748E
- Ford WSS-M97B51-A1
- Freightliner 48-22880
- GSA CID-A-A-52624A
- Mack Truck 014GS17004
- Navistar/International
- John Deere H24C1
- MAN 324 Type N
- MTU 5048
- TMC of ATA RP329/338
- Waukesha 4-1974D