

# ALLTEMP®™ EXTENDED LIFE HEAVY DUTY ANTIFREEZE HEAVY DUTY ENGINE PROTECTION

**ALLTEMP®™ Heavy Duty Extended Life Coolant** uses advanced organic acid technology (OAT) additive/inhibitor package formulated with a proprietary stabilization system to improve the durability of its carboxylate salt base and extend its range of compatibility with both conventional inorganic salt and **OAT-type antifreezes**. It provides superior engine protection against freezing, boil over, cavitation erosion, corrosion and scale and a **service life of 600,000 miles or 12,000 hours**, with inhibitor addition required at 270,000-330,000 miles or 6000 hours. It contains no phosphates or amines, and employs mono- and dibasic organic acid salts with tolyltriazole, nitrites and molybdates to protect all six standard metal alloys (copper, solder, brass, cast iron, steel, and aluminum). **It meets Caterpillar EC-1**. ALLTEMP®™ Heavy Duty Extended Life Antifreeze eliminates the need for SCA's at initial fill and top off because it has a minimum nitrite level of 2400 PPM which reduces long term maintenance cost and problems related to SCA variability. Slowly depleted phosphonocarboxylates and other proprietary ingredients provide broad range metal protection and guard the cooling system against corrosion and cavitation erosion for many years. In addition, it contains additives to minimize hot surface scaling while also preventing heat transfer surface fouling due to minor oil leakage. ALLTEMP®™ Heavy Duty Extended Life Coolant is recommended for use in heavy duty engines. It is also recommended for use in the cooling systems of all types of industrial internal combustion engines, including systems containing large amounts of aluminum.

## PERFORMANCE SPECIFICATONS

**Meets or exceeds the following specifications:**

AMERICAN ASSOCIATION OF MOTOR VEHICLES	DETROIT DIESEL 7SE298
ASTM D-3306	FEDERAL SPECIFICATIONM A-A-B70
ASTM D-4985	FORD ESE-M97D41J-A
ASTM D6210	FREIGHTLINER
CATERPILLER EC-1	GENERAL MOTORS GM 1899
CHRYSLER MS7170	GENERAL MOTORS 1825 FOR ALUMINUM
TMC OF ATA RP329/302	GENERAL MOTORS 6277M (DEXCOOL)
CUMMINS 8ST8-2 & 90t8-4	J.I.CASE JIC-501
JOHN DEERE	MACK 014 GS 17004
NAVISTAR CEMS B-1	PACCAR
SAE J1034	
SAE J1941	

## PRODUCT SPECIFICATIONS

	<u>Concentrate</u>	<u>50/50</u>
Glycols Content, Mass %	96	48
Specific Gravity (60/60°F)	1.110 – 1.145	1.075 – 1.110
Freezing point, 50 Vol.% F	-34 Max.	-34 Max.
Boiling Point, *F	325 Min.	226 Min.
Effect on Automotive Finish	No Effect	No Effect
pH. 1:2 dil. w/water	9.5 – 10.6	9.5 – 10.6
Chloride, ppm	< 5 PPM	< 5 PPM
Reserve Alkalinity	3.0 ml min.	3.0 ml min.
Nitrite (ppm)	2400 ppm	1200 ppm
Ash (WT.%)	5 Max.	2.5 Max.
Bittering Agent	Yes	Yes

## **PACKAGING OPTIONS**

<b>ALL TEMP HEAVY DUTY EXTENDED LIFE ANTIFREEZE 50/50 Pre-diluted AND 100% Concentrate</b>		
<b>*Product Color: Red</b>		
1 Gallon	55 Gallon Drums	Bulk
Pack/Unit per Case: 6	Drums per Pallet: 4	Gallons per Full Truck Load: 5500
Cases per Pallet: 36	Pallets per Truck: 20	*Partial truck loads can be purchased
Pallets per Truck: 20	Drums per Truck: 80	*1000 gallon minimum
Gallons per Truck: 4320	Gallons per Truck: 4400	
Total Pallet Weight: 2210 lbs	Drum Weight: 550 lbs.	