



Product Bulletin

GULF PREMIUM HEAVY DUTY ELC ANTIFREEZE

Gulf Premium Heavy Duty ELC Antifreeze is an extended life coolant that contains a proprietary inhibitor system that makes it significantly more durable than other coolants. In heavy-duty applications it can provide a service life of 600,000 miles, with the addition of Extender at 300,000 miles. In automobiles this extended life Coolant/Antifreeze will provide a service life in excess of 5 years or 150,000 miles.

Gulf Premium Heavy Duty ELC Antifreeze concentrate contains an inhibitor combination of molybdate/nitrite to comply with ATA TMC RP 329 and ASTM D 6210 requirements for diesel coolants. It contains no added phosphates, nitrates or amines. It is a balanced combination of organic and inorganic additives and is compatible with both organic acid extended life coolants and conventional inorganic coolants. In addition, our Extended Life Antifreeze will not cause turbidity, precipitation or inhibitor effectiveness reduction when mixed with other carboxylate-based coolants such as ChevronTexaco Extended Life Coolant or Dex-Cool nor with conventional coolants such as Prestone or Zerex. It is ideal for use in initial fills, coolant change-outs or top-offs.

Gulf Premium Heavy Duty ELC Antifreeze meets ASTM D 3306 (automotive antifreeze), ASTM D 4985 (heavy duty antifreeze), ASTM D 6210 (fully formulated, pre-charged antifreeze) and TMC of ATA RP 329 performance requirements. It also meets or exceeds the following industry specifications as a concentrate or pre-diluted heavy-duty antifreeze/coolant. When used as directed, **Gulf Premium Heavy Duty ELC Antifreeze** meets:**

- ASTM D3306, D4985, and D6210
- Cat EC-1 (ELC)
- Chrysler MS 7170
- Cummins 90T8-4, CES 14603 (Service Bulletin 3666132-04)
- Detroit Diesel 7SE298 (DDC Powercool Plus and Powercool Plus 6000)
- Ford ESE-M97B44-A, WSE-M97B44-B
- Freightliner 48-22880
- GM 1825, 1899M, 6277M
- J.I. Case JIC-501
- Mack Truck
- MTU
- Mercedes DBL 7700
- Navistar B-1
- SAE J1034, J1038
- TMC of ATA*: RP329 – Type B/302A-1, RP338
- Volvo
- International

* Technology & Maintenance Council of the American Trucking Association. This antifreeze also meets the non-phosphate requirements of European OEM's

**Always consult owner's manual to determine the specific OEM recommended fluid, maintenance, changeover intervals and Extender/SCA treat rate for your vehicle.

FREEZE/BOIL PROTECTION - MAXIMUM FREEZE PROTECTION IS AT 70%

Antifreeze%	FREEZING POINT		BOILING POINT*	
	°F	°C	°F	°C
50	-34	-37	265	129
60	-62	-52	270	132
70	-83	-64	277	136

*Boiling point shown using conventional 15 psi radiator cap



Gulf Premium Heavy Duty ELC Antifreeze - Typical Properties

PHYSICAL PROPERTIES:	Unit of Measure	50/50
Glycols Content	mass %	45 min.
Water	mass %	52.9
Flash Point	° F	NONE
Weight Per Gallon	@ 60° F (15.6° C)	8.81 #/gal.
Silicates *	ppm	<120
Product Number:		841118
Additional Properties:	Specification	ASTM Method
Chloride Content, ppm	25 max.	D 3634
Molybdate/Nitrite Content, ppm	2400 min.	D 5827
Specific Gravity @ 60/60 ° F.	1.115-1.125	D 1122
Freeze Point, 50% Volume	-34°F / -36°C max.	D 1177
Boiling Point, Undiluted	325°F / 162°C min.	D 1120
Boiling Point, 50% Volume	226°F / 107°C min.	D 1120
Effect on engine or vehicle finish	No effect	-----
Ash Content, mass %	5 max.	D 1119
pH, 50% Volume	9.8-10.6	D 1287
Reserve Alkalinity, ml	3 min.	D 1121*
Water Content, mass %	5 max.	D 1123
Color	red	-----
Effect on Non-Metals	no adverse effect	-----
Storage Stability	-----	-----
Foaming	150 mi vol., max.	D 1881
	5 sec. break, max.	D 1881
Cavitation-Erosion rating	8 min.	D 2809

***The addition of silicates have been added to specifically meet the requirements of Cummins CES14603 and comply with Cummins Service Bulletin 3666132-04.**

** Reserve Alkalinity (RA) is a term used to indicate the amount of alkaline inhibitors present in an antifreeze formulation. It is incorrect to relate a high RA value with high quality antifreeze. Present state-of-the-art antifreeze formulations contain new inhibitor systems that give added protection to certain metals but do not raise the RA numbers.*