GEM STATE OIL RECOVERY
an EcoLube RECOVERY Company

EcoCool 50/50 Extended Life

Antifreeze/Coolant
For All Vehicles - 50/50 Pre-Diluted

- Complete mixed fleet use; heavy duty diesel, light truck and automotive
- Borate, nitrite, amine and phosphate free
- Compatible with ALL engine coolant technologies
- Extended Service Life Up to:
  - 5 years or 150,000 miles (automotive);
  - 6 years or 600,000 miles (heavy duty diesel)*
- Provides protection on a flush & fill with no coolant extender required

Meets the following specifications:

ASTM D3306, D4985, D6210-10, D7583
AS.NZ 2108.1:1997 Type A • BS 6580
GM 1825M, 1899M • DDC 93K217 • JIS K2234

Recommended for use in:

Cummins 14603 • Caterpillar • GM 6277M
Ford ESE-M97B44A, WSS-M97B44D, WSS-M97B51-A1
GM Heavy Truck Chrysler MS7170, MS9769 • Kenworth
Freightliner 48-22880 • PACCAR/DAF
International Truck & Engine CEMS B-1
VW TL774G • MACK

EcoCool™ 50/50 Extended Life Pre-diluted Antifreeze/Coolant is based on a proprietary Organic Acid Technology (OAT). It has been specifically designed for complete mixed fleet use and can be used in all makes and models of foreign and domestic passenger vehicles, light duty and heavy duty diesel applications. This low silicate, organic additive, ethylene glycol based, extended service product is free of phosphates, borates, nitrites and amines. It will provide extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals, including aluminum. It also provides protection against wet sleeve liner cavitation and is compatible with the flux found in controlled atmosphere brazed (CAB) radiators.

In addition to normal product development testing, this product has been evaluated for chemical and performance compatibility with a wide range of different engine coolant technologies (including Asian, European and North American) using ASTM D1384, D2809 and D4340.

It offers excellent protection against temperature extremes, preventing freeze-up and boil over when used in accordance with OEM and product manufacturer's guidelines regarding product dilution. This product does not impart any significant color change if mixed with another engine coolant. The superior performance and stability of this product's premium extended life corrosion inhibitors allows them to go on working well beyond the lifetime of traditional products.

Chemical Name: Ethylene Glycol-based Engine Coolant
Typical Product Properties:

Characteristics	Performance	Test Method
pH	8.0 – 9.0	ASTM D1287
Specific gravity[b]	1.065 – 1.085	ASTM D1122
Freeze point (°C/°F)	-37/ -34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Chloride (ppm)	25 max.	ASTM D3634
Color	Pale Yellow	
Glycol Content (wgt.%)	48 min.	
Inhibitors and Water Content (wgt.%)	52 max.	
Silicon, from silicate (ppm)	130 max.	ASTM D6130
Boron (ppm)	< 10	
Phosphorous (ppm)	< 10	

[b] *Measured at 15.6°C/60°F*

**When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, it will provide up to 150,000 miles or 5 years of service life protection in automotive application and up to 600,000 miles or 6 years of service life protection in heavy duty diesel use.*

NOTICE: This product is shipped in compliance with applicable laws and regulations regarding classification, packaging, shipping and handling. T he performance and physical property data described for this product are typical results not sale specifications, except where maximum or minimum is indicated. Refer to Material Safety Data Sheets for further information.

Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether product and the information in this document are appropriate for their use and for ensuring that their workplace and disposal practices are in compliance with applicable laws and other governmental enactments. EcoLube Recovery's warranty is limited to the claims of product meeting stated performance specifications. It is the responsibility of the end-user to determine product suitability as recommended in the owner's manual and to follow engine manufacturer's instructions.