



GLYECO
Innovative Green Chemistry



HD Extended Service Hybrid (HOAT) - Prediluted 50/50 Ethylene Glycol Hybrid OAT, Extended Service Coolant

DESCRIPTION:

GlyEco HD Extended Service Hybrid (HOAT) is prediluted, 50/50 antifreeze/coolant, low-silicate, non-phosphate product suitable for automotive/light duty and heavy-duty diesel applications. It contains a well-balanced inhibitor system that provides great protection for all cooling system metal components. The product provides year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. This antifreeze/coolant also includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling and it will not damage auto finishes or rubber parts.

This coolant is pre-charged, meaning that it contains a minimum of 1200 ppm nitrites. Its additives effectively control wet sleeve cylinder liner pitting/corrosion in heavy-duty diesel engines. The primary corrosion inhibition system consists of a combination of salts of carboxylic and phosphono-carboxylic acids. These inhibitors deplete very slowly relative to conventional inorganic salt compounds, providing the extended service life of this antifreeze.

BENEFITS:

- Meets the performance requirements of RP 329, RP 338A, ASTM D6210, ASTM D3306, which include ASTM D1384, ASTM D4340, ASTM D2570, ASTM D2809.
- Ready-to-use.
- Protects all system metals.
- In HD applications, provides up to 100,000 miles on-high way service before supplemental coolant additives (SCA's) are needed. A well-established maintenance practice should be in place for testing coolant at least twice a year.
- In LD applications it will perform for up to 5 years/100,000 miles with complete drain, flush, and refill.
- Yellow color is neutral and will not alter the original color of the coolant if topping off.



CHARACTERISTIC	SPECIFICATION	COMPANY TYPICAL	ASTM METHOD
Chloride (ppm)	25 Max.	9	D3634
Specific gravity (60°F)	1.065 min	1.075	D1122
Boiling Point (50% V/V)	226°F/107°C min.	230	D1120
Freezing Point (50% V/V)	-34°F/-36°C min.	-34	D1177
Effect on engine or vehicle finish	No effect	Pass	--
Ash content, mass %	2.5 max.	1.1	D1119
pH (50% V/V)	9.5 - 10.8	10.3	D1287
Reserve alkalinity*	None specified	4.0	D1121
Color	Distinctive	Yellow	--
Foaming	150 vol., max 5 sec., max	Pass	D1881

*Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.

**Boiling point shown at atmospheric pressure. Add 40°F for 15 psi radiator cap.

Used antifreeze in most states is not hazardous unless it contains more than 5 ppm of lead. We recommend that spent coolant never be disposed of by dumping into a storm sewer or onto the ground. Instead, contact your local GlyEco office to schedule pick-up of the used antifreeze that will be destined for recycling to protect our environment.

Always check the vehicle manufacturer's recommendations or the owner's manual when servicing the cooling system, including coolant selection, top off, and maintenance. OEM coolants and colors can vary greatly. The color of this product is not intended to represent a chemical equivalent to the OEM coolant. This information was believed to be accurate at the time of printing. The test results listed are typical values only. The formula and blending procedures may result in slightly different values, color and/or appearance.