DURALIFE® PREMIUM EXTENDED LIFE UNIVERSAL ANTIFREEZE/ COOLANT

Duralife® Premium Extended Life universal antifreeze / coolant is a dyed yellow Poly-Organic Acid antifreeze for use in both light and heavy duty engine applications. It is a new generation ethylene glycol based antifreeze, single-phase, long life, anti-boil product which has been specially formulated with a hybrid and nitrited organic acid technology (HOAT/NOAT) additive system, containing both carboxylic acids (OAT technology) and azoles/inorganic salts (conventional technology).
Recommended for use in newer Asian, Domestic, and European passenger cars, light duty trucks, heavy duty trucks, and heavy duty engine applications. This product provides liner cavitation protection without the need for nitrite /molybdate and protects all metal surfaces within the cooling system including solder, copper, brass, steel, cast iron, and aluminum. The effectiveness of the coolant is improved by the anti-foam properties which works by preventing air bubbles from forming and interfering with the coolants ability to cool.

APPLICATIONS:
Duralife® Premium Extended Life universal antifreeze / coolant is recommended for automotive and truck cooling systems (all makes and models) and other industrial machines and needs to be diluted in the recommended proportions.
It meets the following performance requirements:

- ASTM D3306, D6210/11, D7853.
- SAE J1034, J1941, J814C, J1038
- GM 6043M/1825M/1899M, Chrysler MS 7170/MS 9760/MS 9769, TMC RP-338, MIL CID A-A-52624-I-IP-II, Ford ESE-WSS M97B44-A-D / M97B18-C/M97B51-A1, JIS K 2234 (Japan Standard), JASO M325, Cummins 90T8-4/3666132/CES 14603, Petebilt, DDC 93K127/7SE298, TMC RP-329 /RP-338, MILA-A 52624.
- Mercedes, BMW, Audi, Toyota/Lexus, Nissan/Infiniti, Subaru, Mazda, Hyundai, Daewoo, Kia, Suzuki.

Mixing ratio:

- Minimum 50%Antifreeze/Coolant and 50% Water, providing protection over a temperature range from –37ºC (-34ºF) to 129ºC(265ºF).
- Maximum 70%Antifreeze/Coolant and 30% Water, providing protection over a temperature range from –64ºC (-84ºF) to 136ºC(276ºF).

BENEFITS:

- This product will provide up to12,000 hours or 600,000 miles in-field service life.
- Provides excellent protection for both automotive and heavy duty diesel engines.
- Constant cooling through improved heat exchange in the cooling system.

- Prevents foaming and provides protection against rust and corrosion.
- No effects on automotive rubber hoses, gaskets and synthetic parts.
- Low silicate formulation that reduces drop-out and silicate gel formation.
- Improved hard water stability, due to the absence of phosphates.

- Compatibility with most major brands of coolant and can add to any color coolant without changing the existing coolant color.
- Storage stable for at least 8 years.

TYPICAL CHARACTERISTICS

Test	Method	Typical results
PH (50% vol. solution in water)	ASTM D1287	7.0-11.0
Specific Gravity @ 15.6ºC (60ºF)	ASTM D1298	1.02- 1.15
Freezing point, ºC(ºF) (50% vol. solution in water), max	ASTM D1177	-37 (-34)
Boiling point,ºC(ºF) (50% vol. solution in water),min	ASTM D1120	108(226)
Total Dissolved Solids, %wt	Federal # 209B	0.48
Foaming, ml	ASTM D 1881	40
Reserve Alkalinity	ASTM D 1121	6
Water, %wt	ASTM D 1123	1.0
Glassware Corrosion Test, weight loss , mg/specimen	ASTM D 1384	
Copper Solder Brass Steel Cast iron Aluminum		-0.2 0.2 -1 -0.5 -0.6 -0.7

The above characteristics are average values based on recent production. Minor variations which do not affect product performance are to be expected in normal manufacture.

WARNING: Corrosion liquid! Harmful if takes internally. Keep out of reach of children and avoid contact with eyes. Do not discharge used liquid into drains.

Reference SDS Number 12028 database on our website at ***www.amtecol.com*** *OR scan the code for a direct link*