



## **DURALIFE® HD EXTENDED LIFE ANTIFREEZE/ COOLANT**

**Duralife® HD Extended Life antifreeze / coolant** is a single-phase ,extended life ,premium ethylene glycol based antifreeze, anti-boil product which has been specially formulated with selected corrosion inhibitors to provide year-round protection of the cooling system. This product 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® HD Extended Life antifreeze / coolant** is recommended for automotive and truck cooling systems and other industrial machines and needs to be diluted in the recommended proportions.

It meets the following performance requirements:

- ❖ ASTM D3306, D 6210, D 6211 ,D7583.
- ❖ SAE J1034, J1941, J814C, J1038
- ❖ GM 6043M/1825M /1899M , TMC RP-329 /RP-338, MIL CID A-A 52624-I-IP-II, Caterpillar EC-1 , JASO M325, JIS K 2234 (Japan Standard),Cummins CES 14603 , DDC7SE 298 , PACCAR, Freightliner 48-22880, John Deere JDM H24, Kenworth R 026167097, Mack 01GS17004, International , Volvo.
- ❖ Mercedes , BMW , Audi, Toyota/Lexus , Nissan/Infiniti , Subaru.

### **Mixing ratio :**

- Minimum 50% Antifreeze/Coolant and 50% Water, providing protection over a temperature range from  $-37^{\circ}\text{C}$  (  $-34^{\circ}\text{F}$ ) to  $129^{\circ}\text{C}$ ( $265^{\circ}\text{F}$ ).
- Maximum 70% Antifreeze/Coolant and 30% Water, providing protection over a temperature range from  $-64^{\circ}\text{C}$  (  $-84^{\circ}\text{F}$ ) to  $136^{\circ}\text{C}$ ( $276^{\circ}\text{F}$ ).

### **BENEFITS:**

- Service interval : 5 years or 150,000 miles for light duty applications and 6 years or 600,000 miles whichever comes first for heavy duty diesel applications with coolant extended added at 300K miles as required.
- 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.
- 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 @ 15.6°C (60°F)	ASTM D1298	1.02 – 1.15
Freezing point, °C(°F) (50% vol. solution in water), max	ASTM D1177	-37 (-34)
Boiling point ,°C(°F) (50% vol. solution in water),min	ASTM D1120	108 (226)
Total Dissolved Solids , %wt	Federal # 209B	0.5
Foaming , ml	ASTM D 1881	45
Reserve Alkalinity	ASTM D 1121	6
Water , %wt	ASTM D 1123	2
Glassware Corrosion Test , weight loss , mg/specimen	ASTM D 1384	
Copper		-0.2
Solder		0.3
Brass		-1
Steel		-0.5
Cast iron		-0.8
Aluminum		-0.9

*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 MSDS Number 12028 database on our website at [www.amtecol.com](http://www.amtecol.com)*