



UNIVERSAL HEAVY DUTY 50/50 ANTIFREEZE/ENGINE COOLANT

Universal Heavy Duty Antifreeze/Engine Coolant is specifically formulated to meet performance requirements of automotive/light duty vehicles as well as those of the heavy duty diesel engine. It is pre-diluted to a 50/50 mixture with deionized water to provide excellent corrosion control and a reduction of scale buildup. It provides corrosion protection for all cooling system metals in all engine applications, including heat rejecting aluminum components such as cylinder heads and blocks common to modern automobiles. Universal Heavy Duty Antifreeze/Engine Coolant is low in silicon content and meets the requirements of most heavy duty diesel engine manufacturers.

Universal Heavy Duty Antifreeze/Engine Coolant is suitable for the addition of a supplemental coolant additive (SCA) in heavy duty applications. Universal recommends initial treatment with a SCA (such as Wix Cool or Pencool) when used in a diesel application. Universal recommends following OEM's suggested intervals for adding SCA's.

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>TEST SPECIFICATIONS</u>
pH - 33%	D-1287	11.0 Max.
Reserve Alkalinity, ml	D-1121	6.0
Specific Gravity (60/60°F)	D-1122	1.06
Freeze Point (% by volume) 50% Aqueous Solution	D-1177	-34°F Max.
Foaming - Foam Volume, ml	D-1881	50 Max.
Break Time, sec.	D-1881	5 Max.
Flash Point	D-92	240°F Min.
Fire Point	D-92	250°F Min.
Ash Content (% by weight)	D-1119	1.0% Max.
Color		OEM Standard Green
Composition (% by weight)		
Total Glycols		47.5% Min.
Inhibitors and Dye		1.0% Min.
Total Apparent Water		3.5% Max.
Chloride, ppm		25 Max.
Phosphorus, ppm		20 Max.
Weight per gallon at 60°F		9.3 - 9.6 lbs.

Meets or exceeds the following manuf specs:

AAMVA
General Motors - GM1825M; GM1899M (performance corresponding to GM6038M)
ASTM - D-3306, incl D-4340; D-4985 (concentrate) / D-4656; D-5345 (prediluted)
Chrysler Motors - MS-7170
Cummins - 90T8-4
Federal Specification A-A-870
Ford - ESE-M97B44-A
Mack Truck
Freightliner
JI Case - JIC501
John Deere - H24B1; H24C1
PACCAR
SAE J1034
TMC of ATA RP-302A

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