



## UNIVERSAL MULTI-PURPOSE ANTIFREEZE/ENGINE COOLANT

Universal Multi-Purpose 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 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 Multi-Purpose Antifreeze/Engine Coolant is also low in silicon content and meets the requirements of most heavy duty diesel engine manufacturers. This product is an ethylene glycol concentrate recommended for usage at a mixture of 50/50 with high quality water.

Universal Multi-Purpose 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) 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	10.0 Min.
Specific Gravity (60/60°F)	D-1122	1.110 - 1.145
Freeze Point (% by volume) 50% Aqueous Solution	D-1177	-37°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	2.0% Max.
Color		OEM Standard Green
Composition (% by weight)		
Total Glycols		95.0% Min.
Inhibitors and Dye		2.0% 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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