

PRODUCT FACTS

Blending Syrup

TYPICAL PROPERTIES

Additive Treat Rate	—	EG CN 2.19% bv EG PM 1.11% bv
Color	Visual	Green
Specific Gravity, 60°F	D1122	1.302
Pounds per Gallon	—	10.86
pH (Undiluted)	D1127	12.0 – 12.8
Freeze Point, °F (Undiluted)	D1177	40 min.

DESCRIPTION AND USE

FCA-4 Blending Syrup is a single component additive package that is used to make premium quality antifreeze, which is designed for use in heavy-duty diesel engines that contains a chemical inhibitor system, which is Borate Based, with Nitrite to protect diesel engines from liner pitting and corrosion. Antifreeze made using FCA-4 is low silicate, contains a full charge of heavy-duty chemical inhibitors, and is compatible with SCA chemical filters. Antifreezes formulated with Borate/Nitrite chemistry are recommended for use in Caterpillar, Detroit Diesel, Cummins and other heavy-duty diesel engines.

FCA-4 Blending Syrup can be blended with ethylene glycol at a 2.19% bv treat rate (1gallon FCA-4 makes 45.7 gallons) to make EG concentrate or at 1.11% bv treat rate (a gallon of FCA-4 makes 90.1 gallons) to make EG premix when blended per Dober's blending procedures.

FCA-4 Blending Syrup makes antifreeze that meets or exceeds the performance requirements of the following specifications, and meets the low silicate limits of GM 6038M.

TMC RP 329	Cummins CES14603	Navistar	ASTM D-6210
Caterpillar	Freightliner 48-22880	ASTM D-4985	Detroit Diesel 7SE298
Volvo GM	ASTM D-3306	John Deere 8650-5	PACCAR
SAE 1941	Case Corp. MS1710	MACK	GM 1825
Ford New Holland 9-86	EMD M.I. 1748E	GM 1899	Thermo-King
Waukesha 4-1974D	CID A-A 52624A		

Typical Properties		EG Concentrate	EG Premix 50/50
Color	Visual	Green	Green
Specific Gravity @ 60°F	D1122	1.120	1.071
Pounds per Gallon, 60°F	—	9.344	8.935
pH (Undiluted)	D1127	10.5	10.5
Reserve Alkalinity (Undiluted)	D1121	6.0	2.8 min.
Freeze Point, °F (Undiluted)	D1177	8 min.	-34 min.
Boiling Point, °F (Undiluted)	D1120	325 min.	226 min.
Water, wt % (Approx.)	D1123	3.0	48.5
Total Glycol, wt %	—	95.0 min.	51.0 min.
Glassware Corrosion Test	D1384	Pass	Pass
Water Pump Cavitation Test	D2809	Pass	Pass
Aluminum Corrosion Test	D4340	Pass	Pass
Simulated Service Test	D2570	Pass	Pass

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