

PRODUCT FACTS

Blending Syrup for NAPS-Free OAT Coolant

FEATURES

- Extended Life Coolant (ELC) additive provides a service life of 600,000 miles without the need for an extender.
- Applicable to both water only and glycol based coolants.
- Does not contain Nitrite, Amine, Phosphate, or Silicate (NAPS-Free).
- Safe for elastomers used in hoses and gaskets.
- A combination of many organic acids provides multi-metal corrosion protection, especially for aluminum.
- Multiple scale inhibitors/dispersants
- Convenient concentrated liquid for easy blending.
- Non foaming
- Patent pending technology.

ADDITIVE TYPICAL PROPERTIES

- Dosage 5.3% BV in Pre-mix (50/50)
- Color Pale Yellow
- Specific Gravity @ 68°F 1.184
- Approximate Density 9.895 lbs/gallon
- Approximate pH 10.0
- Approximate pH at (Recommended dosage) 8.0 to 8.8

DESCRIPTION AND USE

Dober D16 is an easy to use to use, all liquid additive system used to blend heavy-duty, extended life coolants meeting ASTM D6210 standards. This additive package contains extended life corrosion inhibitors based on organic acids and provides maximum protection against damaging rust and corrosion in engine cooling systems. This inhibitor package is free of nitrite, amine, phosphate and silicate. This patent pending technology does not use 2EH acid nor any other organic acid that is aggressive to hoses and gaskets. Coolants made from D16 are suitable for use in modern heavy-duty diesel engines.

This additive package when blended with ASTM E-1177 grade glycol and following Dober's blending procedure is designed to meet the following industry specifications:

ASTM D6210	ASTM D4985	TMC RP329	Cummins CES 14603	Detroit Diesel 93k217	CAT EC-1	SAE J1941
ASTM D3306	ASTM D7583	TMC RP338	Navistar	Freightliner 48-25878	Volvo Mack	

RECOMMENDED APPLICATIONS

D16 is formulated for use in heavy-duty applications for on-highway, off-road, marine, agricultural, mining, and construction equipment.

It is compatible with major coolant types for top-off and full-service.

Cummins	International	Detroit Diesel
John Deere	Freightliner	Mack Truck
General Motors	Ford	Kenworth
Peterbilt	PACCAR	Volvo
Mercedes-Benz	MAN	MTU
Scania		



STORAGE AND HANDLING

Store Dober D16 at moderate temperatures of 35° to 100°F (2° to 38°C). To ensure maximum activity this product should be used within two years. Keep containers closed when not in use.



SAFETY PRECAUTIONS

A Material Safety Data Sheet (MSDS) containing detailed information about this product is available upon request. The MSDS is also available online at <http://msds.dobergroup.com/default.aspx>

For additional information contact Dober at:

630-410-7300

coolantinfo@dober.com

www.dober.com

DOBER

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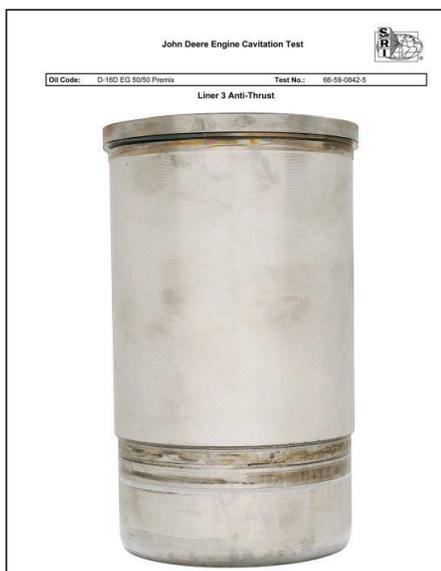
Blending Syrup for NAPS-Free OAT Coolant

Antifreeze Premix 50/50 Typical Properties

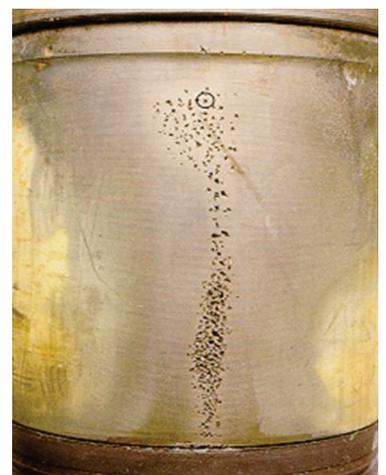
Test Parameter	ASTM Method	Pass/Fail	Result
Effect on automotive finishes	D1882	Pass	Pass
Freeze Point (°C)	D1177	Pass	-38.9°F / -39.4°C
Boiling Point (°C)	D1120	Pass	227.7°F / 108.7°C
Ash Mass %	D1119	Pass	0.7
Glassware Corrosion Test	D1384	Pass	Pass
Water Pump Cavitation Test	D2809	Pass	Pass
Aluminum Corrosion Test	D4340	Pass	Pass
Simulated Service Test	D2570	Pass	Pass
Specific Gravity	D5961	Pass	1.0802
pH 50% vol in DI H2O	D1287	Pass	8.5
Reserve Alkalinity (mL)	D1121	Report	6.8
Foam (mL/sec)	D1881	Pass	90/2.4

John Deere Cavitation Test ASTM D7583

PASS: Dober D16



FAIL: Other Substandard Product



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