

# PRODUCT FACTS

## Blending Syrup for Auto/LD ELC/OAT Coolant

### FEATURES

- Patent pending technology.
- Extended Life Coolant (ELC) additive provides a service life of 5 years/150,000 miles.
- Applicable to both water only and glycol based coolants.
- Does not contain Nitrite, Amine, Phosphate, or Silicate (NAPS-Free).

### ADDITIVE TYPICAL PROPERTIES

- Dosage 2.16% BV Pre-mix (50/50)
- Color Pale Yellow
- Specific Gravity @ 68°F 1.184

### DESCRIPTION AND USE

Dober D16 is a single component additive system used to blend Auto/Light-duty, extended life coolants meeting ASTM D3306 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 Auto/Light-duty are suitable for use in late model passenger cars and auto/light-duty trucks.

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

ASTM D-3306

ASTM D-4340 Hot Surface Aluminum Protection

ASTM D-1384 Corrosion Protection

ASTM D-2809 Water Pump Cavitation

ASTM D-1881 Foaming Characteristics

ASTM D-2570 Simulated Service Testing

Military Specification CID A-A-52624

### RECOMMENDED APPLICATIONS

Compatible with all makes and models and major coolant types for top-off and service. D-16 provides protection against damaging rust and corrosion in automobile and light duty truck cooling systems, including American, Asian, and European vehicles.

- Safe for all common 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

- Approximate Density 9.878 lbs/gallon
- Approximate pH 10.0
- Approximate pH at (Recommended dosage) 8.0 to 8.8



### 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.dober.com>

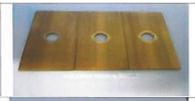
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## Antifreeze Premix 50/50 Typical Properties

Test Parameter	ASTM Method	Pass/Fail	Result
Effect on automotive finishes	D1882	Pass	Pass
Freeze Point (°C)	D1177	Pass	-35.2°F / -37.3°C
Boiling Point (°C)	D1120	Pass	226.4°F / 108.0°C
Ash Mass %	D1119	Pass	0.4
Glassware Corrosion Test	D1384	Pass	Pass
Water Pump Cavitation Test	D2809	Pass	9
Aluminum Corrosion Test	D4340	Pass	Pass
Simulated Service Test	D2570	Pass	Pass
Specific Gravity	D5961	Pass	1.0727
pH 50% vol in DI H2O	D1287	Pass	8.2
Reserve Alkalinity (mL)	D1121	Report	1.2 Minimum
Foam (mL/sec)	D1881	Pass	50 mL / 1.2 sec.

### ASTM Results:

Corrosion	Test	Coupon
		Copper
		Solder
		Brass
		Steel
		Cast Iron
		Cast Aluminum

For additional information contact Dober at:

630-410-7300

[coolantinfo@dober.com](mailto:coolantinfo@dober.com)

[www.dober.com](http://www.dober.com)