

# THE GLOBAL LEADER IN COOLANT ADDITIVES

2023 - PRODUCT CATALOG



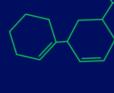
## **TABLE OF CONTENTS**

About Dober	2
Automotive Light Duty Blending Syrups	3
Heavy Duty Blending Syrups	4
Specialty Products	7
Fuel Cell Coolant	8
Electric Vehicle Coolant	9









#### **ABOUT DOBER**

- FOUNDED IN 1957
- **3 CHEMICAL BUSINESSES**
- 1 SOFTWARE BUSINESS
- CHICAGO, IL HEADQUARTERS
- 11 GLOBAL BLENDING LOCATIONS

- 40+ COUNTRIES SHIPPED TO
- 3.000+ HAPPY CUSTOMERS
- ASTM D15 COMMITTEE MEMBER
- EU REACH COMPLIANT
- ISO 9001:2015

#### YOUR DEDICATED PERFORMANCE FLUIDS TEAM



SARKIS AROYAN Sales Dir.



**BRIAN BERGIN** Sr. R&D Scientist



MARY BISHOP Sales Development Representative



DR. GOVIND KHEMCHANDANI Sr. Dir. R&D



**ROLA SALEH** Quality Manager



Director of Manufacturing &



SIGITA SRIUPSIENE SCOTT SMITH



#### DOBER IS THE LARGEST SUPPLIER OF COOLANT ADDITIVES IN THE WORLD

WE ARE PROUD OF OUR PARTNERSHIPS AND BELIEVE OUR TECHNOLOGY & SUPPORT IS UNMATCHED











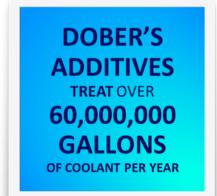






















### **COOLANT BLENDING SYRUPS**



APPLICATION	PRODUCT	DESCRIPTION	PERFORMANCE
Automotive Light Duty Conventional Technology	UCA-4	Borate, Nitrite	Treat Rate: 1.1% By V 50/50 Premix Service Interval: 2 Years or 30k miles Maintenance: Top Off Performance: ASTM D3306, D4985
Automotive Light & Heavy Duty Conventional Technology	FCA-6	Borate, Nitrite	Treat Rate: 1.1% By V 50/50 Premix Service Interval: 2 Years or 30k miles Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Automotive Light Duty Organic Acid Technology	WCA-M	NAPS Free OAT	Treat Rate: 4.2% By V 50/50 Premix Service Interval: 5 Years or 150k miles Maintenance: Top Off Performance: ASTM D3306
Automotive Light Duty Organic Acid Technology	D-17A	NAPS Free OAT Non-2EH	Treat Rate: 2.8% By V 50/50 Premix Service Interval: 5 Years or 150k miles Maintenance: Top Off Performance: ASTM 3306

## **COOLANT BLENDING SYRUPS**



APPLICATION	PRODUCT	DESCRIPTION	PERFORMANCE
Heavy Duty Conventional Technology	FCA-4	Borate, Nitrite	Treat Rate: 1.1% By V 50/50 Premix Service Interval: 2 Years or 30k Miles Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Heavy Duty Conventional Technology	FCA-6	Borate, Nitrite	Treat Rate: 1.1% By V 50/50 Premix Service Interval: 2 Years or 30k miles Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Heavy Duty Conventional Technology	FCA-4PG	Borate, Nitrite	Treat Rate: 1.1% By V 50/50 Premix Service Interval: TBD Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Auto Light & Heavy Duty Hybrid Organic Acid Technology	ACA-4	Borate Buffered, Low Silicate, Nitrite	Treat Rate: 1.4% By V 50/50 Premix Service Interval: 5 Years or 250k Miles Maintenance: Top Off Performance: ASTM D3306, D4985, D6210

### **COOLANT BLENDING SYRUPS**



APPLICATION	PRODUCT	DESCRIPTION	PERFORMANCE
Heavy Duty Organic Acid Technology	D-16	NAPS Free OAT	Treat Rate: 5.3% By V 50/50 Premix Service Interval: Life or 1MM miles Maintenance: Top Off Performance: ASTM D6210, D7583, D3306, D4985
Heavy Duty Organic Acid Technology	OCA-2M	ELC with Nitrite and Molybdate	Treat Rate: 4.0% By V 50/50 Premix Service Interval: 6 Years or 600k miles Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Heavy Duty Organic Acid Technology	A-800	Water Based Engine Coolant	Treat Rate: 5.3% By V 50/50 Premix Service Interval: Life or 600k miles Maintenance: Top Off Performance: ASTM D6210, D3306, D4985
Heat Transfer Fluid	НТА	Treat Rate: 1.3% By. V. / Concentrate Service Interval: 5 years Maintenance: Top Off Performance: ASTM D4985, SAE 1	
Heat Transfer Fluid	HTF-N	Silicate Free	Treat Rate: 4.0% By. V. / Concentrate Service Interval: 5 years Maintenance: Top Off Performance: ASTM D4985, SAE 1941

# SPECIALTY PRODUCTS



APPLICATION	PRODUCT	DESCRIPTION	DETAILS
Cleaner / Flush	REVIVE	Alkaline	Treat Rate: 1 Gallon per Flush Service Interval: Coolant Drain & Refill Maintenance: Add Water & Flush Performance: Water Break Test
Cleaner / Flush	REVIVE PLUS	Mild Acidic	Treat Rate: 1 Gallon per Flush Service Interval: Coolant Drain & Refill Maintenance: Add Water & Flush Performance: Water Break Test
Engine Test Fluid	D17-MX	Flash Rust Inhibitor	Treat Rate: 5.0-7.0% By V.  Maintenance: Refill  Performance: Engine Test
Supplemental Coolant Additive	TR84718	Borate and Nitrite	Treat Rate: 1 pint as needed Service Interval: 25k miles or as needed Maintenance: Test Strip Fill Performance: ASTM 5752
Supplemental Coolant Additive	T84739	Borate and Molybdate	Treat Rate: 1 pint as needed Service Interval: 25k miles or as needed Maintenance: Test Strip Fill Performance: ASTM 5752

## FUEL CELL VEHICLE ULC





Dober Fuel Vehicle ULC 50/50 Prediluted Coolant /Antifreeze is a fully formulated ethylene glycol-based coolant.

Formulated specifically to meet Fuel Cell

Formulated specifically to meet Fuel Cell Vehicles Specification such as:

- Ultra Low Electrical Conductivity
- Corrosion Inhibitor Package to Protect Metals Used in Fuel Cell Vehicles
- Compatible with materials such as gaskets and seals used in Fuel Cell Vehicles

#### **TYPICAL PROPERTIES**

Electrical Conductivity	25°C : 2.0μ/cm
Metals Protected	Aluminum, Copper, Brass, Steel
Freeze Point Boiling Point	-40.0°C/-40.0°F 107.0°C/224.6°F

## **ELECTRIC VEHICLE SLC**





#### Dober Electric Vehicle SLC 50/50

Prediluted Coolant /Antifreeze is a fully formulated ethylene glycol-based coolant. Formulated specifically to meet Battery Electric Vehicle Specification such as:

- Super Low Electrical Conductivity
- Corrosion Inhibitor Package to Protect Metals Used in Electric Vehicles
- Compatible with materials such as gaskets and seals used in Electric Vehicles

#### **TYPICAL PROPERTIES**

Electrical Conductivity	25°C : 14.0 μ/cm
Metals Protected	Aluminum, Copper, Brass, Steel
Freeze Point Boiling Point	-41.0°C / -41.8°F 115.0°C / 239.0°F

