

# STARFIRE®

## PREMIUM COOLANTS

### Purefleet EXTREME Heavy Duty ELC Antifreeze/Coolant

**STARFIRE PUREFLEET EXTREME HEAVY DUTY ELC ANTIFREEZE/COOLANT** is a premium, virgin, ethylene glycol-based heavy duty antifreeze/coolant that contains a proprietary poly-organic/multi-organic acid technology inhibitor system that does not contain any phosphate, silicate, borate, nitrate or nitrite. It provides total cooling system protection for 600,000 on-road miles without the use of additive-containing coolant filters or supplemental coolant additives (SCAs). STARFIRE Purefleet EXTREME Heavy Duty ELC Antifreeze/Coolant is designed for use in all heavy duty cooling system applications, including truck, farm, off-road and/or marine engine. It provides extended life protection up to 600,000 miles when flushed and filled according to directions.

STARFIRE Purefleet EXTREME Heavy Duty ELC Antifreeze/Coolant when used as directed:

- Meets ASTM D 3306, ASTM D 4985, ASTM D 6210 and TMC RP-329/330
- Is compatible with all types of coolant technologies, including conventional inorganic acid salt formulations, straight organic acid (OAT) formulations, hybrid organic acid formulations (HOAT), nitrated HOAT formulations (NOAT) and other poly-organic acid formulations
- Does NOT contain any phosphate, silicate, borate, nitrate or nitrite
- Provides up to 600,000 miles of total cooling system protection
- Is suitable for passenger cars, vans, SUVs, light trucks, heavy duty fleet vehicles and many off-road applications such as stationary engine cooling systems
- Will provide superior corrosion protection for all cooling system metals, including aluminum, steel, cast iron, copper, brass and solder
- Available in concentrate and 50/50 prediluted formulas



#### MEETS THE FOLLOWING OEM SPECIFICATIONS:

GM 6277M	Audi	Cummins CES14603 (as found in service bulletin 3666132-02)	Navistar/International B-1, Type III (CEMS B-1), with the addition of molybdate per specification
Ford ESE M97B44-A	Saab 6901 599	Detroit Diesel 7SE298; DDC Powercool Plus and DDC Powercool Plus 6000	PACCAR: Kenworth, Peterbilt
Ford WSE M97B44-B	Volvo 014 GS 17009	Navistar CEMS B-44	
Ford WSS M97B44-D	Caterpillar EC-1		
Ford WSS-M97B54-A	Caterpillar ELC (with the addition of molybdate per specification)		
Ford WSS-M97B44-E1/E2			
Chrysler MS9769			
John Deere H-5, H-24, A-1 to C-1			
MTU MTL5048, MTL 5049			
Toyota			
Porsche TL-774D			
Mitsubishi			
Honda HES D2009-75			
Hyundai			
Mazda MEZ MW 121D			
Suzuki 0F02			
Isuzu			
VW TL774F (G12), light violet			
VW G12			
BMW			
Mercedes Blatt 325.0 & 325.2			

PUREFLEET EXTREME HD ELC	TYPICAL VALUES	ASTM METHOD
Ash Content (50% by Volume Solution)	2.5% max	D1119
pH 50% by Vol. Solution	7.5-9.0	D1287
Reserve Alkalinity	None Specified	D1121
Specific Gravity at 20/20°C (50% by Volume Solution)	1.110-1.145	D1122
Freezing Point (50% by Volume Solution)	-34	D1177
Boiling Point (50% by Volume Solution)	226°F	D1120
Flash Point (Tag Open Cup) (70% by Volume Solution)	None	
Foam Test	150mL/5.0 sec. max.	D1881
Color	Yellow	