



WORLD OIL

ANTIFREEZE

LIGHT DUTY EXTENDED LIFE

DK512
DK512P (PRE-DILUTED)

World Oil Antifreeze – Light Duty Extended Life offers excellent protection against temperature extremes and is formulated for superior performance in foreign and domestic passenger cars, as well as light and medium duty commercial vehicles. It provides up to 250,000 km (150,000 miles) or 5 years of service life protection when used in compliance with engine manufacturer’s recommendation. It also offers extended protection against rust and corrosion for all metals used in coolant systems, including aluminum.

By choosing a high quality, sustainably produced product, not only are you protecting the service life of your customer’s engine, you’re also preserving profitability and protecting our natural resources. With World Oil Antifreeze, you can minimize wear and tear, control costs, and reduce your carbon footprint, all while enhancing vehicle performance.

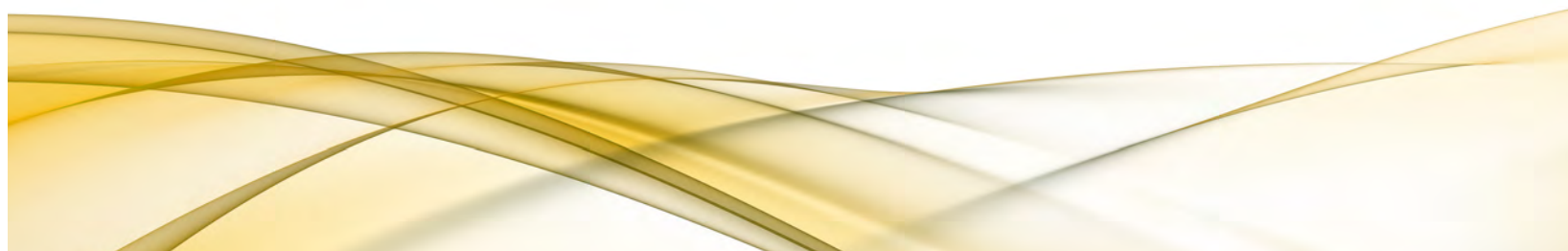
See back panel for a full listing of specifications and recommended vehicles.

USAGE CONSIDERATIONS:

This product will perform as designed when used with ethylene glycol that meets ASTM E1177. In addition to normal product development testing, this technology has been evaluated for chemical and performance compatibility with a wide range of different engine coolant technologies.

Benefits for Your Fleet:

- Prevents freeze up and boil over
- Generally compatible with IAT, HOAT and fully compatible with OAT coolant technologies
- Superior protection against water pump corrosion and erosion-corrosion
- Borate, nitrite, amine and phosphate free silicate
- Extended service life for cooling systems
- Compatible with controlled atmosphere brazed (CAB) radiators
- Does not impart any significant color change if mixed at low levels with another engine coolant



Meets the performance requirements of the following specifications:

OEM/Agency	Specifications
ASTM	D-3306, D6208
British Std	BS 6580
Ford	WSS-M97B44-D
VW	TL774D
Japan Std	JIS K2234
Chrysler	MS12106

Light Duty Extended Life Antifreeze/Coolant satisfies the performance requirements of the above antifreeze specifications and/or recommended practices.

Recommended for use in:

OEM/Agency	Specifications
BMW	
Chrysler	
General Motors	GM 6277M
Honda/Acura	
Hyundai/Kia	
Mazda	
Nissan	NES 5059 LLC
Subaru	
Toyota/Lexus	

For use in all makes and models of foreign and domestic passenger cars, as well as light and medium duty commercial vehicles.

Performance Testing

ASTM D3306	ASTM D3306 (ASTM D1384, D2570, D2809, D4340)
Test	Test Results ¹
D1384	PASS
D4340	PASS
D2570	PASS

ASTM D2809 Aluminum Water Pump Cavitation - Erosion Corrosion Rating	Test Results ¹	Spec.
100 hours	8	8 min.

¹Weight loss per coupon in milligrams (average for 3 tests)
²Aluminum Radiator tests

Characteristic	Performance	Test Method
pH ^a	7.5 - 8.6	ASTM D1287
Specific gravity ^b in premix	1.065 - 1.085	ASTM D1122
Freeze point (°C/°F)	-37/ -34	ASTM D1177
Foam volume (mL)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (mL)	1.8 min. Premix	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Silicon (ppm)	<10 ASTM	D6130
Color	Amber	
Glycol Content (wtg.%)	46 min.	
Inhibitors and Water Content (wtg.%)	54 max.	

World Oil Corporation is dedicated to preserving our environment. All laws and regulations should be observed for proper disposal. Contact the EPA or local municipality for proper disposal procedures in your area. For vehicles under warranty, please refer to your owners manual specifications. Distributed by: