



PERFORMANCE PLUS OILS AND LUBRICANTS
PERFORMANCE UNDER THE MOST EXTREME CONDITIONS



AUTOMOTIVE ENGINE | AUTOMOTIVE DRIVELINE | HEAVY DUTY ENGINE | HEAVY DUTY DRIVELINE | HYDRAULIC | GEAR OILS | GREASES | INDUSTRIAL LUBRICANTS | COOLANTS

**HD EXTENDED LIFE OAT
50/50 PRE-DILUTED COOLANT**

Performance Plus® HD Extend Life OAT coolant is a Nitrite, Amine, Phosphate and Silicate (NAPS Free) organic acid technology (OAT) type coolant formulated for use in commercial engines operating on diesel, gasoline, natural gas, propane, LPG, or methane-based waste gas. This maintenance free formulation does not require the use of Supplemental Coolant Additives (SCAs) during recommended service interval of 8 years, 20,000 hrs and or 1,000,000 (1,609K km) miles making it perfect as a universal top-off and service coolant. This coolant is a combination of many organic acids that provides multi-metal corrosion protection, especially for aluminum. It is a non-foaming formulations with many scale inhibitors/dispersants. It is compatible with major coolant types for top off and full-service.

PERFORMANCE PLUS PROPERTIES	
Relative Density 60°F (15.5°C)	1.065 to 1.095
Freeze Point, °F (°C)	-34 (-37) max
Boiling Point, °F (°C)	226 (108) min
Ash Content, mass %	< 2.5
pH	8 to 9
Chloride, ppm	< 25
Effect on Automotive Finish	No Effect
Service Interval: Heavy Duty Trucks	8 years/ 12,000 hrs. / 1,000,000 miles (1,609 km)
Color	Red
Bittering Agent, ppm	30 to 50

Approvals and Specifications

Performance Plus HD Extended Life OAT is Nitrite free and tested against and determined to meet the physical, chemical, and performance requirements of:

ASTM D6210 ASTM D3306
TMC RP 329

HD Extended Life OAT is suitable for heavy duty applications which require an OAT Coolant (where applicable)*.

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

Ready to use product: Do not add water.

Note: Values shown above are representative of current production and may vary within modest ranges

*In formation regarding recommended maintenance and equipment operating conditions can be found by referencing Original Equipment Manufacturer's (OEM) coolant recommendations.

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HD EXTENDED LIFE NAPS FREE OAT 50/50 PRE-DILUTED COOLANT

Features and Benefits: Performance Plus Coolants deliver the protection and performance demanded by today's heavy-duty engines. Tested, proven, and trusted quality are why those demanding the best, turn to Performance Plus. Additionally, Performance Plus HD Extended Life OAT Coolant offers the following benefits:

- Suitable for various applications
- Formulated to be versatile
- Heat transfer and anti-scaling properties
- Superior properties
- Multi-alloy protection formulation
- Universal top-off and service coolant for mixed fleets
- Compatible with controlled atmosphere brazed (CAB) aluminum radiators
- Preventing hard water mineral build-up
- Free of Nitrite, Amine, Phosphate, Silicate,
- Protecting against corrosion of aluminum, brass, cast iron, copper, solder, and steel

Proven and Trusted: The foundation of all Performance Plus products is the tested, proven and trusted quality. This focus on quality is why hundreds of thousands of vehicle and stationary engine owners/operators across North America trust Performance Plus to protect their engine cooling systems.

PERFORMANCE PLUS PROPERTIES	SPECIFICATIONS	PERFORMANCE
ASTM D1384 Corrosion in Glassware: Weight Loss (mg/specimen)		
Copper Brass Steel Cast Iron	10 max (EA)	Pass
Solder Aluminum	30 max (EA)	Pass
ASTM D2570 Simulated Service Test: Weight Loss (mg/specimen)		
Copper Brass Steel Cast Iron	20 max (EA)	Pass
Solder Aluminum	60 max (EA)	Pass
ASTM D4340 Corrosion of Cast Aluminum Alloys at Heat Rejecting Surfaces		
mg/cm ² /week	1.0 max	Pass
ASTM D1881 Foaming		
Volume, mL	150 max	Pass
Break Time, seconds	5 max	Pass
ASTM D2809 Cavitation Corrosion of Aluminum Pumps – Rating		
	8 min	Pass

Health and Safety: Information detailing health and safety associated with using the product can be found in the corresponding Safety Data Sheet (SDS) on the Performance Plus website. Ethylene glycol-based antifreeze is toxic and must not be used to winterize potable water systems.

Storage: Product is stable for at least 5 years when stored in original container at ambient temperature. Agitate before use.

Disposal: All efforts should be made to protect the environment. Waste antifreeze should never be disposed of by dumping onto the ground, or into a septic system or storm sewer. Should you need any assistance with disposal, please contact your sales representative for information on Safety-Kleen's waste antifreeze collection services.

For additional questions, please contact your Performance Plus® Products Sales Representative.

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