



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 NMOAT (RED)
50/50 PRE-DILUTED ANTIFREEZE/COOLANT

Performance Plus® HD Extend Life NMOAT antifreeze/coolant is Nitrite/Molybdate fortified Organic Acid Technology (NMOAT). This proven formulation does not require the use of Supplemental Coolant Additives (SCAs) during recommended service interval making it perfect as a universal top-off and service coolant. This extended life coolant is designed to last 8 yrs or 12,000 hrs or 600,000 miles. Recommended for use in construction equipment, road building equipment, and on-road diesel engines requiring a Nitrite/Molybdate fortified OAT coolant. This advanced organic acid technology provides maximum protection against damaging rust and corrosion in transportation cooling systems.

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	8.0 to 9.3
Chloride, ppm	< 25
Effect on Automotive Finish	No Effect
Service Interval: Heavy Duty Trucks	8 years / 12,000 hrs. / 600,000 miles (960K km)
Color	Red
Bittering Agent, ppm	30 to 50

Approvals and Specifications

Performance Plus HD Extended Life NMOAT was tested against and determined to meet the physical, chemical, and performance requirements of:

ASTM D6210 ASTM D3306
 ASTM D4985 TMC RP 329

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

Detroit Diesel International	Navistar
Caterpillar EC-1	John Deere
Freightliner	MAN
PACCAR	Scania
Kenworth	Ford
Peterbilt	General Motors
MTU	Volkswagen
Cummins	Mercedes-Benz
Daimler	Volvo
Toyota	Mack Truck

Ready to use product: Do not add water.

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

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

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Features and Benefits: Performance Plus Antifreeze/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 NMOAT Antifreeze/Coolant offers the following benefits:

- Suitable for various applications
- Heat transfer and anti-scaling properties
- Multi-alloy protection formulation
- Universal top-off and service coolant for mixed fleets
- Preventing hard water mineral build-up
- 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. Every production batch of Performance Plus Coolant is tested in a laboratory against industry specifications prior to distribution. 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, second	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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