



**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

**Fully Formulated Conventional (Green)**  
**50/50 PRE-DILUTED ANTIFREEZE/COOLANT**

**Performance Plus® Fully Formulated HD Conventional** antifreeze/coolant is premium quality inorganic additive technology designed for use in heavy-duty diesel engines that contains a chemical inhibitor system, which is Borate, Nitrite-base formula to protect diesel engines from liner pitting and corrosion. This formulation is pre-charged with nitrites, so it does not require the addition of Supplemental Coolant Additives (SCAs) at initial fill. Recommended for use in Heavy-Duty Diesel engines that require the addition of SCA's as a recommended maintenance program. This Coolant is made with a low Silicate, Phosphate Free formulation containing a full charge of heavy-duty chemical inhibitors and is compatible with SCA filters. Formulated with Borate/Nitrite chemistry are recommended for use in Caterpillar, Detroit Diesel, Cummins and other heavy-duty diesel engines.

PERFORMANCE PLUS PROPERTIES	
Relative Density 60°F (15.5°C)	1.0725 to 1.1725
Freeze Point, °F (°C)	-34 (-37) max
Boiling Point, °F (°C)	226 (108) min
Ash Content, mass %	< 1.0
pH	10.5 to 10.8
Chloride, ppm	< 25
Effect on Automotive Finish	No Effect
Service Interval: Heavy Duty Trucks	2 years / 200,000 miles With proper maintenance*
Color	Green
Bittering Agent, ppm	30 to 50

**Approvals and Specifications**

Performance Plus Fully Formulated HD Conventional meets the physical, chemical, and performance requirements of:

- ASTM D6210
- ASTM D4985
- ASTM D3306
- TMC RP329

Fully Formulated Conventional is suitable for heavy duty applications requiring borate/nitrate chemistry (w here applicable)\*.

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

\* With ongoing monitoring using nitrite test strips & compatible SCA/slow-release chemical filter.

**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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## Fully Formulated Conventional (Green) 50/50 PRE-DILUTED ANTIFREEZE/COOLANT

**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 Fully Formulated Conventional 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. 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
<b>ASTM D1384 Corrosion in Glassware: Weight Loss (mg/specimen)</b>		
Copper   Brass   Steel   Cast Iron	10 max (EA)	Pass
Solder   Aluminum	30 max (EA)	Pass
<b>ASTM D2570 Simulated Service Test: Weight Loss (mg/specimen)</b>		
Copper   Brass   Steel   Cast Iron	20 max (EA)	Pass
Solder   Aluminum	60 max (EA)	Pass
<b>ASTM D 4340 Corrosion of Cast Aluminum Alloys at Heat Rejecting Surfaces</b>		
mg/cm <sup>2</sup> /week	1.0 max	Pass
<b>ASTM D 1881 Foaming</b>		
Volume, mL	150 max	Pass
Break Time, seconds	5 max	Pass
<b>ASTM D2809 Cavitation Corrosion of Aluminum Pumps – Rating</b>		
	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.

Rev. 5/22