

## Antifreeze &amp; Engine Coolants

# AMSOIL HEAVY-DUTY ANTIFREEZE & COOLANT

Product Code: ANTHD1G-EA



## Product Description

AMSOIL Heavy-Duty Antifreeze & Coolant delivers up to 1,000,000 miles of cooling system protection in a single fill, eliminating the need for supplemental coolant additives (SCAs) or extenders. It is a fully formulated, ethylene glycol 50/50 pre-mix built for heavy-duty diesel engines, off-road equipment, and mixed fleets that need long service life without the maintenance burden of conventional coolants.

Heavy-duty cooling systems face a unique combination of threats. Cylinder-liner cavitation can eat through wet sleeves from the inside out. Scale buildup from phosphates, silicates, and nitrites chokes heat transfer and clogs passages. And in mixed fleets running everything from Class 8 trucks to pickup trucks, keeping multiple coolant types on hand creates confusion and increases the risk of cross-contamination. A single coolant that handles all of it, without requiring additive maintenance, simplifies the entire equation.

### PREVENTS CYLINDER-LINER CAVITATION WITHOUT NITRITE

Wet-sleeve diesel engines in Cummins, Detroit Diesel, and Navistar platforms are especially vulnerable to cavitation pitting. The rapid vibration of cylinder liners creates vapor bubbles that collapse against the liner wall, eroding metal over time. Traditional coolants rely on nitrite to combat this, but nitrite depletes quickly and can accelerate aluminum corrosion. AMSOIL Heavy-Duty Antifreeze & Coolant uses a proprietary hybrid organic acid technology (HOAT) formulation that delivers top-performing results in ASTM D7583 testing, the John Deere Cavitation Test, without the drawbacks of nitrite-based chemistry.

### VIRTUALLY ELIMINATES SCALE BUILDUP

Phosphate, silicate, borate, and amine are common in conventional coolants, and they are responsible for nearly all scaling problems in cooling systems. Scale insulates heat transfer surfaces and restricts flow, raising operating temperatures and accelerating component wear. AMSOIL Heavy-Duty Antifreeze & Coolant is phosphate-free, nitrite-free, silicate-free, borate-free, and amine-free. The formulation also includes anti-scalant and anti-fouling additives that keep cooling passages clean over the full service life. For operators running 6.0L and 6.4L Ford Power Stroke diesels that specifically require silicate- and nitrite-free coolant, this product meets the mark without compromise.

### CORROSION PROTECTION ACROSS ALL COOLING SYSTEM METALS

In third-party ASTM D2570 corrosion testing, cast-iron and copper plates protected by AMSOIL showed virtually no signs of corrosion. The formulation provides superior protection for aluminum, steel, cast iron, copper, brass, and solder alloys. That coverage matters in modern cooling systems where aluminum cylinder heads, cast-iron blocks, copper-brass radiators, and steel heater cores all share the same fluid circuit. A coolant that protects one metal at the expense of another is not an option.

### ONE COOLANT FOR THE ENTIRE FLEET

AMSOIL Heavy-Duty Antifreeze & Coolant is compatible with all ethylene and propylene antifreeze colors, as well as all plastics and

elastomers found in cooling systems, including hoses, gaskets, and water pump seals. The formulation includes water-pump lubrication additives for additional component protection. For mixed fleets running Freightliner, Peterbilt, Kenworth, Volvo, and Mack trucks alongside pickup trucks and off-road equipment, stocking a single coolant that covers everything reduces inventory, training, and the risk of cross-fill errors. When used in non-heavy-duty applications, it provides protection for up to 150,000 miles or 5 years.

### **FREEZE AND BOIL-OVER PROTECTION**

The 50/50 pre-mix with high-purity water provides freeze protection down to -34 degF (-37 degC) and boil-over protection up to 265 degF (129 degC) with a 15 psi radiator cap. No additional water is needed, and using the product as supplied maintains the correct concentration for maximum temperature protection in both directions.

### **SPECIFICATIONS AND COMPATIBILITY**

AMSOIL Heavy-Duty Antifreeze & Coolant meets or is suitable for applications requiring the following specifications: ASTM D3306, ASTM D6210, ASTM D7583, ASTM D7820, TMC RP329B, TMC RP338, and AS/NZS 2108.2004 Type A. It is suitable for use with Case New Holland, Cummins 14603, Cummins 3666132, DDC 7SE 298, DDC 93K217, Freightliner 48-22880, GM Heavy Truck, International Truck and Engine / Navistar CEMS B-1 Type III-A, JIS K2234, MAN 324 NF, Mercedes-Benz DBL 7700, MB-Approval 325.3, MTU MTL 5048, Kenworth RO26-170-97, Mack 014GS17004, Mack 014GS17009, PACCAR CS0185, DAF MAT 74002, Peterbilt 8502.002, Scania TB1451, and Volvo Heavy Truck. It also meets Chrysler MS 12106, GMW 3420, GM 6277M, JIS K2234, VW TL 774D, and Ford WSS-M97B44-D, along with ASTM D3306 requirements.

### **SERVICE LIFE**

In heavy-duty and off-road applications, AMSOIL Heavy-Duty Antifreeze & Coolant provides protection for up to 1,000,000 miles, 20,000 hours, or 8 years, whichever comes first. No supplemental coolant additives or extenders are required. In passenger car and light truck applications, protection extends up to 150,000 miles or 5 years, whichever comes first. Check and maintain coolant level at every oil-change interval, and consult the owner's manual for additional maintenance guidelines. Do not add water.

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## **Frequently Asked Questions**

### **Q1: What vehicles and equipment is AMSOIL Heavy-Duty Antifreeze & Coolant designed for?**

AMSOIL Heavy-Duty Antifreeze & Coolant (ANTHD1G) is designed for an exceptionally wide range of applications, including auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, agriculture, and powersports equipment. Verified users have successfully used it in vehicles ranging from Kubota tractors and Ford 6.0L Powerstrokes to Corvettes, Isuzu NQR diesels, and ATVs. It provides superior protection for cooling systems containing aluminum, steel, cast iron, copper, brass, and solder alloys.

### **Q2: How does AMSOIL Heavy-Duty Antifreeze & Coolant protect against corrosion and cavitation?**

AMSOIL Heavy-Duty Antifreeze & Coolant delivers excellent protection against corrosion, cylinder-liner cavitation, freezing, and boil-over. In third-party, industry-standard ASTM D2570 corrosion testing, cast-iron and copper plates protected by AMSOIL showed virtually no signs of corrosion. In ASTM D7583 cavitation testing, cylinder liners protected by AMSOIL also showed virtually no signs of cavitation. Its proprietary hybrid organic acid technology (HOAT) formulation is further enhanced with anti-scalant, anti-fouling, and water-pump lubrication additives to virtually eliminate scaling problems.

### **Q3: What is hybrid organic acid technology (HOAT) in AMSOIL Heavy-Duty Antifreeze & Coolant and why does it matter?**

AMSOIL Heavy-Duty Antifreeze & Coolant uses a proprietary hybrid organic acid technology (HOAT) formulation, which combines the long-life benefits of organic acid technology with additional protective additives. This HOAT formula is further enhanced with anti-scalant, anti-fouling, and water-pump lubrication additives. The coolant is phosphate-, nitrite-, silicate-, borate-, and amine-free, making it suitable for sensitive cooling system components and applications like the Ford 6.0L Powerstroke that require silicate- and nitrate-free coolant.

### **Q4: How does AMSOIL Heavy-Duty Antifreeze & Coolant compare to coolants that require supplemental coolant additives (SCAs)?**

Unlike many conventional heavy-duty coolants that require the regular addition of supplemental coolant additives (SCAs) or extenders to maintain protection, AMSOIL Heavy-Duty Antifreeze & Coolant is fully formulated and does not require SCAs or extenders. This simplifies maintenance and reduces the risk of additive imbalance. Its proprietary HOAT formulation provides long-lasting protection for up to 1,000,000 miles, 20,000 hours, or 8 years in heavy-duty and off-road applications, eliminating the hassle and cost of frequent

additive top-offs.

**Q5: How long does AMSOIL Heavy-Duty Antifreeze & Coolant last before it needs to be changed?**

AMSOIL Heavy-Duty Antifreeze & Coolant provides long-lasting protection for up to 1,000,000 miles, 20,000 hours, or 8 years, whichever comes first, in heavy-duty and off-road applications. It comes as a 50/50 pre-mix ethylene glycol formulation, so it is ready to use right out of the jug with no additional mixing required. This extended service life makes it an ideal choice for equipment that is difficult to service, as verified users have noted the long lifespan as a key reason for choosing this product.

**Q6: Is AMSOIL Heavy-Duty Antifreeze & Coolant compatible with other coolant colors and cooling system materials?**

Yes, AMSOIL Heavy-Duty Antifreeze & Coolant is compatible with all other antifreeze and coolant colors, so it can be used regardless of what coolant was previously in the system. It is also compatible with all plastics and elastomers found in cooling systems, including hoses and gaskets. The formulation provides superior protection for all common cooling system metals, including aluminum, steel, cast iron, copper, brass, and solder alloys.

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**Available Product Codes**

Product Code	Package Size	Unit of Measure
ANTHD1G-EA	Gallon Jug	Each
ANTHD1G-CA	Gallon Jug	Case of 4
ANTHD55-EA	55 Gallon Drum	Each
ANTHD27-EA	275 Gallon Tote	Each

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