

Product Data Sheet



Premium Lubricant Products, Optimal Lubricant Performance, Professional Staff & Service

HB-199AR Extended Life Antifreeze 50/50

DESCRIPTION:

HB-199AR Extended Life Antifreeze 50/50 is prediluted, 50/50 antifreeze/coolant formulated with nitrite and molybdate for extra protection in heavy-duty diesel applications. It contains a well-balanced organic acid technology (OAT) inhibitor system that provides great protection for all cooling system metal components. The product provides year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. This antifreeze/coolant also includes ingredients to disperse minor oil leakage, prevent fouling, and control hot surface scaling.

HB-199AR Extended Life Antifreeze 50/50 eliminates the need for chemical filters and supplemental coolant additives (SCA's). Formulated to be free of phosphate, silicate, amine, and borate. It is compatible with other HD OAT coolants like CAT ELC (EC-1 specification).

BENEFITS:

Meets the performance requirements of RP329, RP338A, RP364, ASTM D6210, ASTM D3306.

- Excellent protection against erosion corrosion by wet sleeve cylinder liner cavitation (liner pitting).
- Ready-to-use prediluted 50/50
- Red in color.
- Protects all system metals. In HD applications provides up to 600,000 miles on-highway or up to 12,000 hours off-road service where a well-established monitoring program is in place for testing coolant at least twice a year. Coolant Extender is generally needed at half-life (300,000 miles or 6000 hours) and may be added based on results from coolant sample analysis
- Meets H1 requirements for incidental food contact
- Enhanced lubrication and superior protection at low temperatures
- Excellent film strength and anti-wear properties
- High stability and demulsibility in wet environments
- Maintains fluidity at cold-temperatures
- Resistant against rust, corrosion and other deposits
- Resists fling-off and remains on the chain for maximum lubrication and protection
- Non-toxic/non-hazardous

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Product Data Sheet

Recommended for use in the following heavy duty on road and stationary engines including:

- Detroit Diesel Corp
- Komatsu
- General Motors
- International Truck
- Volvo / Mack Trucks
- Kenworth
- Caterpillar
- Peterbilt
- John Deere
- Freightliner
- Ford Motor Co
- Mercedes

Typical Properties

Characteristic	Company Typical	ASTM Method
Specific Gravity (60°F)	1.075	D1122
Boiling Point (50% V/V)	230°F	D1120
Freezing Point (50% V/V)	-34°F	D1177
Ash content, mass %	1.1	D1119
pH (50% V/V)	8.5	D1287
Reserve alkalinity*	3 mL	D1121
Color	Red	--

Typical Characteristics are those obtained with normal tolerance of production and no constitute a specification.
Variations that do not affect the performance of the product during the normal manufacturing process.

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