



# HEAVY DUTY NMOAT

EXTENDED LIFE ANTIFREEZE / COOLANT WITH NITRITE AND MOLYBDATE

PRODUCT #237

## DESCRIPTION:

Crystal Clean Heavy Duty NMOAT 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.

Crystal Clean Heavy Duty NMOAT 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.

## PREMIX 50/50

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	--

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

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

This product contains a limited warranty. Please visit <https://www.crystal-clean.com/af-warranty> for full details. Follow OEM recommendations for specified maintenance.

\*Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.

\*\*Boiling point shown at atmospheric pressure. Add 40°F for 15 psi radiator cap

