



# ICE FREEZE HEAVY DUTY HYBRID (NOAT) 50- 50 EXTENDED LIFE

ICE FREEZE HEAVY DUTY HYBRID is a ready-to-use coolant - antifreeze, developed with NOAT technology (Organic Acid Technology with Nitrite) of organic acids with nitrite that inhibit the corrosion of all types of metals in the cooling system and prevent erosion by cavitation.

It is a fluid for heavy duty diesel engines, long life (Extended Life) due to its organic nature and its complete formulation, it does not require supplementary additives (SCA). Meets the requirements of most heavy duty engine manufacturers.

## USES

It is recommended for heavy duty diesel engine cooling systems that require an ethylene glycol nitrite coolant (hybrid technology). For use in on-road and off-road units, such as earthmoving, construction, agricultural, transportation machinery, stationary power generators, among others.

Always check the vehicle manual to ensure the type of refrigerant to use.

## PROPERTIES

- Protects against the corrosion of metals found in the cooling system such as iron, aluminum and welds, other metals such as copper, bronze, brass, steel.
- Organic technology free of Phosphates, Nitrates, amines and silicates, which allows excellent heat transfer, without the formation of deposits.
- Presence of nitrite in complete formulation (does not require SCA, supplementary additives) for protection against cavitation.
- Prevents engine overheating due to its high boiling point, as well as its antifreeze property flowing at very low temperatures.
- Prevents foaming and degradation of radiator water.
- It does not attack rubber hoses or plastic elements.

## SPECIFICATIONS

Meets the following specifications:

- ASTM D-3306 (type III)
- ASTM D-6210 (type III FF)
- ASTM D-4985
- CATERPILLAR EC-1

- Detroit Diesel
- Freightliner
- TMC RP 329

Meets nitrite supplemented OAT coolant requirements for:

- Caterpillar EC-1 - Cummins (with nitrite)
- Freightliner - Hino - Isuzu - Komatsu - Scania - Volvo - Wartsila.

## HOW TO USE

- Remove the radiator pressure cap.
- Pour directly undiluted.
- Install the radiator pressure cap

## RECOMMENDATIONS

- Check the fluid level monthly.
- Check for leaks in the cooling system.
- Check the operation of the thermostat to optimize the cooling system.
- In case the coolant level is low, add the same product.



## HEALTH AND SAFETY

Never mix a chemical product with another, maintain good personal and industrial hygiene practices. In case of contact with the eyes, rinse immediately with plenty of water. KEEP OUT OF THE REACH OF CHILDREN. Read the product safety sheet

## AVAILABLE SIZES

### ICE FREEZE HEAVY DUTY HYBRID

3.785 L gallon  
5 gal pail  
55 gal cylinder

## TYPICAL PROPERTIES

PHYSICOCHEMICAL TESTS	UNIT	AVERAGE VALUES
Color	Visual	Red
Density @ 20 ° C	g/ml	1.05
Boiling point, 50% solution	°C	129
Freezing point, sun. 50%	°C	-35
pH (50% solution)		8.0
% Silicate	%	Silicate Free
Water solubility		Total

\* Using a radiator pressure cap at 103.4 kPa (15psi) in good condition. In the batches manufactured there may be slight variations in the average values, which do not affect the quality or the performance of the product.