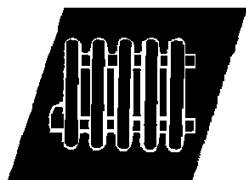


# HD NF COOLANT 50-50 Blue



ANTIFREEZE &  
HEAT TRANSFER



Ready-to-use, blue heavy-duty long-life diesel antifreeze and coolant

## APPLICATIONS

Coolant with extremely  
long life

- **HD NF COOLANT 50-50 (Blue)** is an ethylene glycol long-life coolant suitable for all internal combustion engines, especially heavy duty diesel engines. Blue refers to the color of the coolant.
- **HD NF (Heavy Duty Nitrite Free) COOLANT 50-50 (Blue)** utilizes organic acid technology. It may be used in radiators that contain either organic or hybrid-organic based coolants and is compatible with most heavy duty diesel engine coolants. It contains no borates, nitrites, phosphates or silicates. This is a ready-to-use antifreeze solution. Recommended change out period is 5 years or 600,000 miles and no extender addition is necessary.

## SPECIFICATIONS

American standards  
and  
OEM standards

- ASTM D-3306 (Automotive service), ASTM D-4985, D-6210 (HD Diesel)
- ASTM D 5345 (prediluted HD Diesel); SAE J 1941, J 1024
- ATA Truck Maintenance Council RP-329, RP-302C, RP-338
- Behr Radiator; Caterpillar EC-1; Chrysler MS 7170
- Cummins CES 14603; Cummins 90T8-4
- Detroit Diesel 93K217, 7SE298; Ford ESE-M97B44-A, WSE-M7B44-B
- Freightliner 48-22880; General Motors 1899-M, 1825-M and 6277-M
- International; Isuzu; Komatsu, Kubota; JI Case JIC-501;
- John Deere H24A1, H24C1; Mack Truck SB232-014; Mercedes DBL 7700
- MTU 5048; Navistar B 1; New Holland; Terex; Volvo/GM Heavy Truck

## ADVANTAGES

High technical  
performance  
Long service life

- Good corrosion protection
- High boiling point and low freezing point
- Easy to identify light blue color
- Up to 600,000 mile service life without adding extender
- Contains a bitter tasting additive as a deterrent for pets and children

### TYPICAL CHARACTERISTICS—HD NF COOLANT 50-50 BLUE

Color, visual	Blue	Freeze point, °F (°C) (ASTM D 1177)	<-34 (-37)
Specific gravity @ 60/60 °F (ASTM D1298)	1.067	Flash point, °F (°C) (ASTM D 92)	250 (121)
Density, lbs/gal	8.886	Reserve alkalinity, ml (ASTM D 1121)	4.6
Composition, wt %		Foam resistance (ASTM D-1881)	
Total glycols, wt%, min. (ASTM E 202)	47.5	Foam volume, 150 ml max.	50
Total water, wt% max. (ASTM D 1123)	52.5	Foam break, 5 seconds max.	5
Chlorides, 25 ppm max	<25		

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TOTAL Lubricants USA with a policy of continuous improvement, reserves the right to change specifications as our technology progresses.  
We are not responsible for the misuse and/or misapplication of our products. MSDS are found at on our web site.