



HEAVY DUTY RED CONCENTRATE

Antifreeze / Coolant

iLast Premium Heavy Duty Concentrate AntiFreeze

Used as directed, offers superior performance in virtually every light and heavy duty application. The proprietary inhibitor package is low silicate and phosphate and 2-EH free. Can be used as a top-off but to achieve maximum protection a complete flush and fill should be performed. iLast Premium Heavy Duty Antifreeze provides protection against:

- Freeze-up/Boil Over
- Scale Build Up
- Sludge/Clogging
- Wet Sleeve Liner Pitting
- Rusting
- Corrosion

Advantages

- Meets Light Duty ASTM D-3306 and Heavy Duty ASTM D-6210
- One product for Light Duty and Heavy Duty applications.
- Perfect choice for mixed fleets. No need to add SCA's.
- Safe for use with all engine metals, including aluminum.
- Phosphate free and low silicate - suitable for European and Asian models.
- Light Duty - 5 years/150,000 miles • Heavy Duty - 3 years/300,000 miles.
- Compatible with hybrid and OAT coolants - including Dexcool™
- For safety purposes all iLAST antifreeze is blended with a bittering agent.

Specifications

iLast Heavy Duty Concentrate is blended with proprietary additives designed to safely meet the performance specifications of (but not limited to):

- ASTM D-3306
- Caterpillar EC-1
- Volvo Trucks
- Komatsu
- ASTM D-6210
- Detroit Diesel
- GE Locomotive
- Navistar
- Ford WSS-M97B51
- Cummins Engine
- Freightliner
- TMC RP329
- GM 1825M
- John Deere
- Ford
- GM 1899M
- International
- ESE-M97B44-A
- Chrysler MS 7170
- Case New Holland
- Mercedes



TYPICAL PROPERTIES

| DESCRIPTION | TYPICAL VALUES | TEST METHOD |
|-----------------------------|----------------|-------------|
| Appearance | Visual | Orange/Red |
| Specific Gravity at 60/60°F | 1.085-1.150 | D 1122 |
| Freeze Point, at 50% max | -34°F | D-3321 |
| pH at 50% Solution | 8.5-10.0 | D-1287 |
| Reserve Alaklinity min. | 6 | D-1121 |
| Foam Test | 150ml/5 sec | D-1881 |

| FREEZE/BOIL PROTECTION CHART | % of Cooling System capacity | PROTECTS FROM | |
|------------------------------|------------------------------|------------------|----------------|
| | | Freezing Down to | Boiling Up to* |
| Using a 15 PSI Pressure Cap | 40 | -10 °F | 259 °F |
| | 50 | -34 °F | 265 °F |
| | 60 | -62 °F | 270 °F |

| Cooling System Capacity in Quarts | Quarts of Antifreeze Required for Protection to Temperature (°F) Shown | | | | | | | | | | |
|-----------------------------------|--|-----|-----|-----|-----|-----|-----|-----|----|--|--|
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| 8 | -7 | -34 | | | | | | | | | |
| 9 | 0 | -21 | -50 | | | | | | | | |
| 10 | 4 | -12 | -34 | -62 | | | | | | | |
| 11 | 8 | -6 | -23 | -47 | | | | | | | |
| 12 | 10 | 0 | -15 | -34 | -57 | | | | | | |
| 13 | 3 | -9 | -25 | -45 | | | | | | | |
| 14 | 6 | -5 | -18 | -34 | -54 | | | | | | |
| 15 | 8 | 0 | -12 | -26 | -43 | -62 | | | | | |
| 16 | 10 | 2 | -8 | -19 | -34 | -52 | | | | | |
| 17 | | 5 | -4 | -14 | -27 | -42 | -58 | | | | |
| 18 | | 7 | 0 | -10 | -21 | -34 | -50 | -62 | | | |
| 19 | | 9 | 2 | -7 | -16 | -28 | -42 | -56 | | | |
| 20 | | 10 | 4 | -3 | -12 | -22 | -34 | -48 | | | |

For best overall protection, solution strengths within the YELLOW color band are recommended.

50% SOLUTION RECOMMENDED TO OBTAIN MAXIMUM PROTECTION. DO NOT EXCEED 70% CONCENTRATION OF ANTIFREEZE.