

# TEC-KOOL®

## MAX



**TEC-KOOL® Max Red ELC Heavy-Duty Concentrate Antifreeze/Coolant** is a heavy-duty, extended life inhibitor package coolant containing organic acids, azoles, and nitrite. It contains no amines, borate, nitrate, phosphate or silicate. It will protect all engine metals from corrosion and will control cylinder liner pitting cavitation-erosion. It contains additives to minimize hot surface scaling and heat transfer surface fouling due to minor oil leakage, less susceptible to contamination than hybrid and conventional technologies, and is compatible with HD ELC, NOAT, and EC-1 systems.

**TEC-KOOL® Max Red ELC Heavy-Duty Concentrate Antifreeze/Coolant** is compatible with most major brands of OAT, HOAT, and conventional antifreeze. In heavy-duty applications, it provides a service life of at least 600,000 miles with the addition of an extender at 300,000 miles, if necessary. Extenders are added when analysis of the coolant indicates that it is needed. For off-road heavy-duty applications, it will provide a service life of 12,000 hours, with the addition of the extender at 6,000 hours if needed.

- Amines, Borate, Nitrate, Phosphate, and Silicate-Free Formula
- ELC Heavy-Duty - No SCA's Required
- Protection Against Corrosion and Cavitation

**Meets or exceeds the following performance requirements and industry specifications:**

- ASTM D3306
- ASTM D6210
- TMC RP 329
- TMC RP 302A-1
- TMC RP 330
- International®
- Cummins®
- Caterpillar®
- Detroit Diesel®
- Mack®

|              | Product Number | UPC Code     | Pack            |
|--------------|----------------|--------------|-----------------|
| Concentrate  | 1031012540CONC | 859862007654 | 6/1 Gallon      |
|              | 1031021540CONC | 859862007661 | Drum            |
|              | 1031020540CONC | 859862007692 | 275 Gallon Tote |
|              | 1031020540CONC | 859862007708 | 330 Gallon Tote |
| 50/50 Premix | 10310125450/50 | 859862007647 | 6/1 Gallon      |
|              | 10310215450/50 | 859862007678 | Drum            |
|              | 10310205450/50 | 859862007685 | 275 Gallon Tote |
|              | 10310250450/50 | 859862007715 | 330 Gallon Tote |

### TEC-KOOL® Max Red ELC Heavy-Duty Concentrate Antifreeze

| Physical Properties             |        |                |
|---------------------------------|--------|----------------|
| Antifreeze Glycols              | Mass % | 95.0 min.      |
| Water & Corrosion Inhibitors    | Mass % | 5.0 min.       |
| Flash Point                     | °F     | 250° F         |
| Weight per gallon at 60°F -16°C | lbs.   | 9.17-9.37 min. |
| Silicates                       | Mass % | Nil            |

| % Antifreeze | Freezing Point |          | Boiling Point* |          |
|--------------|----------------|----------|----------------|----------|
|              | °F             | °C       | °F             | °C       |
| 40%          | -9 max.        | -22 max. | 220 min.       | 104 min. |
| 50%          | -34 max.       | -36 max. | 226 min.       | 107 min. |
| 70%          | -84 max.       | -64 max. | 240 min.       | 115 min. |

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

| Characteristics                    | Specification                          | Company Typical | ASTM Method |
|------------------------------------|--|-----------------|-------------|
| Chloride                           | 25 ppm, max.                           | 2               | D3634       |
| Specific gravity 60/60°F           | 1.110-1.145                            | 1.120           | D1122       |
| Boiling Point Undiluted            | 325°F/162°C min.                       | 328             | D1120       |
| Boiling Point, 50% V/V             | 226°F / 108°C min.                     | 230             | D1120       |
| Freezing Point, 50% V/V            | -34°F / -36°C max.                     | -34             | D1177       |
| Effect on engine or vehicle finish | No effect                              | Pass            | --          |
| Ash content, mass%                 | 2.5 max.                               | 2.0             | D1119       |
| pH, 50% V/V                        | 7.0-11.0                               | 8.5 - 9.5       | D1287       |
| Reserve alkalinity*                | None specified                         | 8               | D1121       |
| Water mass %                       | None specified                         | 2.3 max.        | D1123       |
| Color                              | Distinctive                            | Red             | --          |
| Effect on nonmetals                | No adverse effect                      | Pass            | --          |
| Storage stability                  | None specified                         | >1 year         | --          |
| Foaming                            | 150 ml rise max.<br>5 sec. break, max. | Pass            | D1881       |

\* 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.

**NOTE:** All laws/regulations should be observed when disposing of Antifreeze/Coolant. Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/state/national/international regulations.

TEC-KOOL® Max Red is Also Available in Yellow