

# TEC-KOOL®

## DEFENSE



- For all makes & models
- Provides protection for all cooling system metals
- Protects up to 5 years or 150,000 miles

Meets or exceeds the following performance requirements and industry specifications:

- ASTM D3306
- ASTM D4340
- SAE J1941
- TMC RP302C

**TEC-KOOL Defense Gold Light-Duty Extended Life 50/50 Premix Antifreeze/Coolant** contains a mixture of proprietary organic acid technology (OAT) inhibitor system that is significantly more durable than conventional additive systems for automotive, light-duty use, resulting in a 5-year, 150,000 mile service life. The antifreeze is suitable for use in foreign and domestic passenger cars, vans, SUVs and light trucks requiring extended life antifreeze, compatible with European phosphate-free and Japanese silicate-free requirements.

**TEC-KOOL Defense Gold Light-Duty Extended Life 50/50 Premix Antifreeze/Coolant** contains no borate, nitrate, nitrite, phosphates, silicates, or amines. It is compatible with all organic acid extended life coolants and conventional coolants. Additionally, it contains inhibitors that protect all cooling system metals. Together with the glycol base, these inhibitors combined with other additives, give year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. **TEC-KOOL Defense Gold Light-Duty Extended Life 50/50 Premix Antifreeze/Coolant** also includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling and it will not damage auto finishes or rubber parts and can be incidentally mixed with most major brands of OAT, HOAT and conventional antifreezes without precipitation problems.

|              | Product Number | UPC Code     | Pack            |
|--------------|----------------|--------------|-----------------|
| Concentrate  | 1031012530CONC | 859862007241 | 6/1 Gallon      |
|              | 1031021530CONC | 859862007265 | Drum            |
|              | 1031020530CONC | 859862007272 | 275 Gallon Tote |
|              | 1031020530CONC | 859862007289 | 330 Gallon Tote |
| 50/50 Premix | 10310125350/50 | 859862007296 | 6/1 Gallon      |
|              | 10310215350/50 | 859862007302 | Drum            |
|              | 10310205350/50 | 859862007319 | 275 Gallon Tote |
|              | 10310205350/50 | 859862007326 | 330 Gallon Tote |

### TEC-KOOL Defense Gold Global Light-Duty Extended Life 50/50 Premix Antifreeze

| Physical Properties             |        |           |
|---------------------------------|--------|-----------|
| Antifreeze Glycols              | Mass % | 48.0 min. |
| Corrosion Inhibitors            | Mass % | 1.1 min.  |
| Water                           | Mass % | 49.0 max. |
| Flash Point                     | °F     | None      |
| Weight per gallon at 60°F -16°C | lbs.   | 8.8 min.  |
| Silicates                       | Mass % | <250 ppm  |

| % Antifreeze | Freezing Point |         | Boiling Point* |         |
|--------------|----------------|---------|----------------|---------|
|              | °F             | °C      | °F             | °C      |
| 50%          | -34 max        | -36 max | 226 min        | 107 min |

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

| Characteristics                    | Specification                          | Company Typical | ASTM Method |
|------------------------------------|----------------------------------------|-----------------|-------------|
| Chloride                           | 25 ppm, max.                           | 3               | D3634       |
| Specific gravity 60/60°F           | 1.065 min                              | 1.070           | D1122       |
| Boiling Point, 50% V/V             | 226°F / 107°C min.                     | 229             | D1120       |
| Freezing Point, 50% V/V            | -34°F / -36°C min.                     | -34             | D1177       |
| Effect on engine or vehicle finish | No effect                              | Pass            | --          |
| Ash content, mass%                 | 2.5 max.                               | 2.0             | D1119       |
| pH, 50% V/V                        | 8.0-9.5                                | 8.8             | D1287       |
| Reserve alkalinity*                | None specified                         | 3 min.          | D1121       |
| Water mass %                       | None specified                         | 49.0 max.       | D1123       |
| Color                              | Distinctive                            | Gold            | --          |
| 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.