

# Golden West

Superior Since 1929

Golden West offers high-quality products that meet or exceed manufacturer's specifications at the most economical prices.

P R O D U C T S P E C I F I C A T I O N S

## Data Sheet: ELC Antifreeze and Summer Coolant



Available:



55/1

### RED COLOR

TOP OFF: Will maintain extended life protection when added to any OAT Extended Life antifreeze/coolant. FLUSH AND FILL: Receive protection for up to 600,000 miles or 12,000 hours with a complete flush and fill using Golden West Nitrite Free Heavy Duty Extended Life concentrate.

Specifications and Performance: Golden West Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant meets or exceeds performance requirements of the major engine manufacturers and the following industry specifications: ASTM D6210, D4985, D7583, D3306, TMC RP329, SAE J1941

### Product Application:

Golden West Heavy Duty Nitrite Free Extended Life Antifreeze/Coolant (ELC) is an Organic Acid Technology (OAT) that is intended for use and compatible with ANY OAT Extended Life heavy duty antifreeze/coolant in ANY diesel powered commercial vehicle engine or stationary engine with aluminum and other engine metals. Its patented, technologically advanced formulation is based upon a concentrated blend of premium long-lasting inhibitors designed to provide up to 600,000 miles/12,000 hours\* of protection against temperature extremes, rust, corrosion, scale, and premature water pump failure. Golden West AF/C is available in Concentrate and Prediluted 50/50 formulas.

Test Number & Description	Test Result	ASTM D-4985 accepted value
D-1122, Specific Gravity	1.129	1.110 - 1.145
D-1177, Freeze Point	-35.9°F	-34°F max. or lower
D-1120, Boiling Point @100%	325°F	325°F min.
D-1120, Boiling Point @50%	226°F	226°F min.
D-1182, Auto Finish Effect	No Effect	No Effect
D-1119, Ash Content	1.10%	5% max.
D-1287, pH 1+1 V/V	11.0	7.5 - 11.0
D-5827, Chloride	23	25 ppm max.
D-1123, Water P% (as rec'd)	2.7%	5% max.
D-1121, Reserve Alkalinity	11.3	n/a
D-1881, Foaming Tendencies	Break: 1.7 sec/Vol. 50ml	Break: 5 sec/Vol. 150ml
Color	Red	Red
Test Description	Amount Found	ASTM D-4985 accepted value
Silicone	250 ppm	250 ppm max.

These values are representative of current production. They may vary within modest ranges.

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**United Oil & Grease Company Abilene**  
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**United Oil & Grease Company Lubbock**  
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GOLDEN WEST: A COMPLETE LINE OF LUBRICANT PRODUCTS



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## P R O D U C T S P E C I F I C A T I O N S

### FEATURES & BENEFITS

- Nitrite free, Organic Acid Technology (OAT)
- Complete liner pitting and corrosion protection; protects aluminum and all other engine metals
- Requires no initial Supplemental Coolant Additive (SCA) or Extender
- Compatible with all heavy duty OAT formulations
- When used as directed, Golden West Heavy Duty Nitrite Free ELC formulations provide long-lasting inhibition and corrosion protection

### GENERAL DESCRIPTION

Composition	Typical Values
Ethylene Glycol and Inhibitors: Concentrate 50 vol %	97.9% 51%
Water: Concentrate 50 vol %	2.1% 49%
Dyes	Trace
Color	Red
Odor	Characteristic
Pack/Unit	Jug / Drum / Tote
Average Fluid Weight/Unit at 68°F (20°C): Concentrate 50 vol %	9.3 lb (4.2 kg) / gal (3.78 L) 8.9 lb (4.0 kg) / gal (3.78 L)

Protection (Golden West/Water Ratio)	Freeze-Up Protection	Boilover Protection†
40% Golden West ELC 60% Water	-12°F (-24°C)	221°F (105°C)
50% Golden West ELC 50% Water	-34°F (-37°C)	265°F (129°C)
60% Golden West ELC 40% Water	-62°F (-52°C)	270°F (132°C)
70% Golden West ELC 30% Water	-84°F (-64°C)	276°F (136°C)

† Using a 15 lb pressure cap in good condition.

### APPLICATION

Check engine coolant level frequently and top off with self-diluted or prediluted (50/50) Golden West antifreeze/coolant as needed. For flush and fill, ensure the system is drained and flushed. A 50/50 mix of Golden West Extended Life Antifreeze/Coolant is recommended to ensure proper freezing/boilover protection. To ensure the proper concentration level of inhibitors, never exceed 70% concentration. Always check the specific maintenance and change-over intervals, antifreeze/coolant to water ratio, cooling system capacity and service instructions recommended for your vehicle.

Properties	Typical Values	Test Method
Ash, Mass: Concentrate 50 vol %	1.20% 0.60%	ASTM D1119
pH, 50 vol %	8.6	ASTM D1287
Reserve Alkalinity: Concentrate 50 vol %	10.0 mL 5.0 mL	ASTM D1121
Specific Gravity at 20/20°C: Concentrate 50 vol %	1.118 1.070	ASTM D1122
Flash Point, 50 vol %	None	Tag Open Cup
Foam Test	70 mL/2.0 sec	ASTM D1881

### HANDLING

Keep container closed. In case of spill, clean up quickly as product is slippery. Flush small spills with water. Large spills, collect into drums for proper disposal. Dispose of or recycle according to federal, state or local regulations.

### MEETS OR EXCEEDS PERFORMANCE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS\*:

- ASTM: D3306, D4985, D6210, D7583
- TMC: RP329, RP338
- Cummins Bulletin 3666132
- Cummins CES 14603
- Navistar
- Detroit Diesel 93K217
- Freightliner 48-25878
- CAT EC-1
- Volvo 128603
- SAE J1941

\* For updated list of specifications, visit

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