



CHEVRON SUPREME ANTIFREEZE/COOLANT

Concentrate and Prediluted 50/50

CUSTOMER BENEFITS

Chevron Supreme Antifreeze/Coolant delivers value through:

- **Providing excellent protection** for both automotive and heavy-duty diesel engines (ASTM D 3306 and ASTM D 4985)
- **Good aluminum corrosion protection**
- **Good heat transfer properties**
- **Excellent antifoam** characteristics
- **Good corrosion protection** for aluminum, brass, copper, solder, steel and cast iron
- **Low silicate** formulation that reduces drop-out and silicate gel formation
- **Compatibility with cooling system filters**
- **Compatibility with heavy duty diesel supplemental coolant additives**
- **Compatibility with most major brands of coolant**

FEATURES

Chevron Supreme Antifreeze/Coolant is a superior quality, single phase, ethylene glycol based product blended with a quality additive package. It is a low silicate, all-purpose coolant designed for use in both heavy-duty diesel and automotive engines, particularly those containing aluminum alloys. Chevron Supreme Antifreeze/Coolant is free of nitrites and amines.

Chevron Supreme Antifreeze/Coolant provides anti-foam properties, and rust and corrosion protection for aluminum, brass, copper, solder, steel and cast iron. It mixes readily with any clean tap water and is compatible with cooling system filters and supplemental additives.

Chevron Supreme Prediluted 50/50 Antifreeze/Coolant is a 50/50 mixture of Chevron Supreme Antifreeze/Coolant with deionized water.

APPLICATIONS

Chevron Supreme Antifreeze/Coolant is formulated to meet the aluminum corrosion protection requirements of automotive engines. Because of its low concentration of silicate, it also complies with Cummins and other heavy-duty diesel engine manufacturers' silicate requirements. This product is also suitable for use in industrial internal combustion engines where an antifreeze/coolant is required to provide protection against freezing, boil over, and corrosion. In heavy duty applications this product must have supplemental coolant additives added as recommended by the engine OEM.

Chevron Supreme Antifreeze/Coolant does not meet DEX-COOL® requirements.

Note: These products are not to be used to protect the inside of potable water systems against freezing.

Recommended Dilutions for Chevron Supreme Antifreeze/Coolant

Boiling Protection	°C(°F)*
50% (1 part antifreeze/1 part water)	129.4(265)

* using a 15lb pressure cap

Freezing Protection	°C(°F)
40% (2 parts antifreeze/3 parts water)	-24.4(-12)
50% (1 part antifreeze/1 part water)	-36.7(-34)
60% (3 parts antifreeze/2 parts water)	-52.2(-62)

For optimum year round protection against freezing, boiling and corrosion, a 50 percent Chevron Supreme Antifreeze/Coolant solution (1 part antifreeze/1 part water) is recommended. For maximum protection against freezing in extremely cold areas a 60 percent solution (3 parts antifreeze/2 parts water) can be used. Concentrations greater than 67 percent or less than 40 percent are not recommended.

Chevron Supreme Prediluted 50/50 Antifreeze/Coolant should be used as manufactured. No dilution is recommended.

Chevron Supreme Antifreeze/Coolant meets:

- ASTM D 3306 for automotive service
- ASTM D 4985 for heavy duty diesel service

Chevron Supreme **Prediluted 50/50 Antifreeze/Coolant** meets:

- ASTM D 4656 for pre-blend automotive service
- ASTM D 5345 for pre-blend heavy duty diesel service

Chevron Supreme Antifreeze/Coolant meets or exceeds the requirements of the following specifications: (It should be noted that many heavy-duty diesel manufacturers are changing their requirements to simply require ASTM D 4985.)

- AAMVA
- General Motors
 - GM1825M, GM 1899M (performance corresponding to GM 6038M)
- ASTM D 3306 including ASTM D 4340, ASTM D 4985
- Chrysler MS-7170
- Cummins 90T8-4
- Federal Specification A-A-870
- Ford ESE-M97B44-A
- Freightliner
- J.I. Case JIC 501
- John Deere H24B1, H24C1
- Mack Truck
- PACCAR
- SAE J1034
- TMC of ATA RP-302A

CORROSION PROTECTION

Chevron Supreme Antifreeze/Coolant and Prediluted 50/50 have been tested against ASTM standards for heavy duty and light duty coolants. In ASTM 1384, Glassware Corrosion test, the inhibitor system rendered weight losses that were only a small fraction of allowed limits for all six metals tested.

Chevron Supreme Antifreeze/Coolant ASTM D 1384 Glassware Corrosion Test		
	ASTM Limit	Weight loss, mg per coupon*
Copper	10 max	3
Solder	30 max	-1
Brass	10 max	3
Steel	10 max	-1
Iron	10 max	1
Aluminum	30 max	2

* Negative indicates net gain

CHEVRON SUPREME USE IN HEAVY DUTY APPLICATIONS

Original Equipment Manufacturer (OEM) recommendations should be followed when adding supplemental coolant additives, or when changing out cooling systems.

HANDLING PRACTICES

Always dispose of used coolant in accordance with local, state, and federal guidelines.

In order to prevent the formation of silicate gel in storage containers, concentrated Chevron Supreme Antifreeze/Coolant should not be stored longer than eighteen months without agitation. Supplemental coolant additives should not be added until the product is ready to be used.

For information on the safe handling and use of these products, refer to their Material Safety Data Sheets. For more information and availability, call 1-866-688-8890.

TYPICAL TEST DATA**Chevron Supreme Antifreeze/Coolant**

<i>Product Number</i>	227800
<i>MSDS Number</i>	10448
Appearance	Fluorescent green
Specific gravity 60/60°F	1.130
Freezing point, °C ¹ , ASTM D 1177	-34
pH ² , ASTM D 1287	10.5
Reserve alkalinity ³ , ASTM D 1121	12.0
Silicate, % ⁴	0.09

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

- 1 50 vol % aqueous solution
- 2 1:2 dilution with water
- 3 as received
- 4 as anhydrous alkali metasilicate

Chevron Supreme Prediluted 50/50 Antifreeze/Coolant

<i>Product Number</i>	227801
<i>MSDS Number</i>	10468