



SHELLZONE[®] ANTIFREEZE/ COOLANT (Conventional)

Product Description

Shellzone Antifreeze is a superior quality, single phase, ethylene glycol based antifreeze. It is a low silicate, all-purpose coolant designed for use in both automotive and heavy duty diesel engines (with the use of SCA's). **Shellzone Antifreeze Prediluted 50/50** is a 50/50 volume mixture of **Shellzone Antifreeze** with deionized water.

Applications

Shellzone Antifreeze is specially formulated to meet the stringent aluminum corrosion protection requirements of today's automotive engines. Because of its low concentration of silicate, it also complies with Cummins and other heavy-duty diesel engine manufacturer's 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.

Features and Benefits

Shellzone Antifreeze provides the following qualities:

- Universal formula for both automotive and heavy duty diesel engines (ASTM D 3306 and ASTM D 4985)
- Excellent heat transfer properties
- Superior anti-foam characteristics
- Superior corrosion protection for aluminum, brass, copper, solder, steel and cast iron
- Low silicate formulation
- Nitrite-free, amine-free and borax-free
- Concentrate mixes readily with clean tap water
- Pre-diluted product is ready to use and requires no mixing for top-up and initial fill
- Compatible with cooling system filters
- Compatible with heavy duty diesel supplemental coolant additives
- Compatible with conventional brands of coolant
- 100% biodegradable in its pure unused form

Approvals and Recommendations

Shellzone Antifreeze meets:

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

Shellzone Antifreeze Prediluted 50/50 meets:

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

Shellzone Antifreeze 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
- ASTM D 3306 incl. D 4340
- ASTM D 4985
- Chrysler MS-7170
- Cummins 90T8-4
- Federal Specification A-A-870
- Ford ESE-M97B44-A
- Mack Truck
- Freightliner
- General Motors GM1899M
(Performance corresponding to GM6038M)
- J.I. Case JIC501
- John Deere H24B1
- John Deere H24C1
- PACCAR
- SAE J1034
- TMC of ATA RP-302A

Note: **Shellzone** is not an extended life coolant and requires the use of Supplemental Coolant Additives (SCA's) in heavy duty and industrial applications. For information on Shell's Rotella ELC Extended Life Coolant contact the technical information line at 800-782-7852.

Typical Characteristics of Shellzone Antifreeze

	Typical Concentrate	Typical 50/50
Code No.	94010	94067
Appearance	Fluorescent Green	Florescent Green
Specific gravity 60/60 °F	1.130	1.06
Freezing point, °F (ASTM D 1177) 50 vol % q.s. aqueous solution	-34	-34
pH (ASTM D 1287), 1:2 dilution with water	10.5	10.3
Reserve Alkalinity (ASTM D 1121), as received	12.0	6.0
Silicate, % (as Anhydrous Alkali Metasilicate)	0.09	0.045

For customers requiring bitterant in their coolant see table below for **Shellzone** with bitterant added.

Product Name	Product Code number	Properties
Shellzone Antifreeze/Coolant with Bitterant	94050	Same as code numer 94010 above.

Handling and Safety Information

Shellzone Antifreeze has a shelf life of about 18 months. Concentrate product should be mixed before use. Always dispose of used coolant in accordance with local, state and federal guidelines. These products are not to be used to protect the inside of potable water systems against freezing. For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. For more information and availability, call **1+800-782-7852** or World Wide Web: <http://www.shell-lubricants.com/>.

