Technical Data Sheet

# ShellZone **DEX-COOL** *ELC AF/C 50/50*

***Extended Life Antifreeze***

ShellZone DEX-COOL® Extended Life Antifreeze/Coolant is a single-phase, ethylene glycol based, extended life, universal automotive engine coolant based on a unique extended life carboxylate inhibitor system. ShellZone DEX-COOL® is suitable for a five year or 150,000 mile service life in automotive applications. In heavy-duty applications not requiring nitrite ShellZone DEX-COOL® is suitable for a service life of 600,000 miles or 12,,000 hours. ShellZone DEX-COOL® Extended Life AF/C 50/50 is ready to use and requires no further dilution.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- Meets GMW3420--General Motor's new Extended Life Coolant specification (DEX-COOL® )
- Five year or 150,000 miles service interval
- Provides effective, long term corrosion protection for aluminum, brass, cast iron, steel, solder and copper
- Superior high temperature aluminum protection
- Improved water pump life
- Maintains good as new heat transfer due to no silicate containing formula
- Reduces silicate gel formation in use or in storage
- Storage stable for at least eight years
- 100% biodegradable in its pure unused form
- Compatible with conventional antifreeze. Further dilution of a 50/50 mixture with more than 10% conventional coolant or water will reduce cooling system protection
- All product bittered to help render product unpalatable

### Main Applications

- Extended life universal automotive gasoline or diesel engine antifreeze / coolant
- Extended life universal heavy-duty diesel antifreeze/coolant for systems not requiring nitrite
- Extended life antifreeze/coolant meeting Japanese silicate free requirements
- Extended life antifreeze/coolant meeting European phosphate free requirements

### Specifications, Approvals & Recommendations

- GM DEX-COOL® approval
- GMW3420 (GM 6277M)
- Ford WSS-M97B44-D
- Chrysler MS 12106 (meets performance requirements)
- Volkswagen/Audi G-12
- ASTM D3306, D4985, D6210 (Meets)
- Federal Specification A-A-870

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Typical Physical Characteristics

| Properties | | Method | ShellZone DEX-COOL ELC AF/C 50/50 |
|---|---|---|---|
| Appearance | | | Orange |
| Specific Gravity 60 / 60°F | | | 1.06 |
| Freeze point, as purchased | °F | | -34 |
| pH as sold | | ASTM D1287 | 8.3 |
| Reserve Alkalinity, as received | | ASTM D1121 | 3.0 |
| Silicate (as Anhydrous Alkali Metasilicate) | % | | None |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification,

variations in these characteristics may occur.

## Health, Safety & Environment

- **Health and Safety**

  ShellZone DEX-COOL® Extended Life Antifreeze/Coolant is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

  Avoid contact with skin. Use impervious gloves with used coolant. After skin contact, wash immediately with soap and water.

  Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from https://www.epc.shell.com

- **Protect the Environment**

  Take used coolant to an authorised collection point.  Do not discharge into drains, soil or water.

## Additional Information

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.