Technical Data Sheet

ShellZone **Multi-Vehicle** ***Antifreeze/Coolant***

Organic Additive Technology Coolant / Antifreeze Concentrate

ShellZone® Multi-Vehicle Extended Life Antifreeze/Coolant is a premium quality antifreeze/coolant that has been tested to be compatible with all automotive and light duty truck antifreeze/coolant products available in the market today. When used in a flush and refill service of the cooling system, the product will provide 5 years, or 150,000 miles of service (whichever occurs first). ShellZone® Multi-Vehicle Extended Life Antifreeze/Coolant not only guards against freezing and boil-over, it also provides critical protection against corrosion forming on system components, including aluminium.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- For all makes and models of passenger cars and light duty trucks
- 5 years / 150,000 mile service life when used during complete drain and fill
- Excellent protection during high operating temperatures
- Protects against water pump cavitation
- Protects against corrosion
- Does not change color when added to existing fluid

Main Applications

SHELLZONE® MULTI-VEHICLE EXTENDED LIFE ANTIFREEZE/COOLANT is recommended for all automotive and light duty truck cooling systems not requiring the use of SCA's, regardless of color. When used at a 50/50 ratio of antifreeze to good quality water, the solution will provide protection over a temperature range of –34°F to +265°F with a system using a 15-psi radiator cap.

Specifications, Approvals & Recommendations

SHELLZONE® MULTI-VEHICLE EXTENDED LIFE ANTIFREEZE/COOLANT meets or exceeds:

- ASTM D3306

Recommended Applications:

- Suitable in mixtures with all major coolant types for service fill
- Dilute to desired freeze point with high quality water before use

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

Typical Physical Characteristics

Properties			Method	ShellZone Multi-Vehicle Antifreeze/Coolant
Color and Odor			Visual	Yellow; Characteristic Odor
Specific Gravity	60/60°F		ASTM D1122	1.117
pH, 50% Solution			ASTM D1287	8.5
Freeze Pt., 50/50 Dilution		°C (°F)	ASTM D1177	-37°C (-34°F)
Boiling Point		°C (°F)	ASTM D1120	+173°C (+345°F)
Flash Point		°C (°F)	ASTM D92	130°C (266°F)
Auto Finish Effect			ASTM D1882	No effect
Density, lb/US gal	@60°F		Conversion	9.36
Ash Content		weight %	ASTM D1119	0.798
Reserve Alkalinity		ml	ASTM D1121	4.0

Properties	Method	ShellZone Multi-Vehicle Antifreeze/Coolant
Foaming Tendencies	ASTM D1881	30 ml max, <1 sec break time

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 Multi-Vehicle 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 oil. 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 your Shell representative.

- **Protect the Environment**

  Take used oil 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.