



# ShellZone Multi-Vehicle Antifreeze/Coolant

**ShellZone Multi-Vehicle Antifreeze/Coolant** is recommended for use in all makes and models of foreign and domestic passenger vehicles and light duty trucks. This full (i.e. 100%) OAT corrosion inhibitor package contains a proprietary formulation of premium corrosion inhibitors that provide extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. It also provides excellent protection against temperature extremes, preventing freeze-up and boil over when used in accordance with OEM and product manufacturer's guidelines regarding product dilution.

This product does not impart any color change if mixed with another engine coolant. The superior performance and stability of its premium extended life corrosion inhibitors allows them to go on working well beyond the lifetime of traditional products. When added to a coolant system after a complete drain, flush and fill, this product provides up to 150,000 miles or 5 years of protection.

## Performance, Features & Benefits

- Recommended for use in all makes and models of foreign and domestic passenger vehicles and light duty trucks
- 5 years / 150,000 mile service life when used during complete drain and fill
- Excellent protection against temperature extremes, preventing freeze-up and boil over
- Extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals
- Does not change color when added to existing fluid

## Main Applications

SHELLZONE® MULTI-VEHICLE ANTIFREEZE/COOLANT is recommended for use in all makes and models of foreign and domestic passenger vehicles and light duty truck cooling systems regardless of color. When used at a 50/50 ratio of coolant to de-ionized water, the solution will provide protection over a temperature range of -34°F to +264°F with a system using a 15-psi radiator cap.

## Specifications, Approvals & Recommendations

SHELLZONE® MULTI-VEHICLE ANTIFREEZE/COOLANT meets or exceeds ASTM D3306 and JIS K2234 and has been evaluated against:

- ASTM D4340 Hot Service Aluminum Protection
- ASTM D1384 Corrosion Protection
- ASTM D2809 Water Pump Cavitation
- ASTM D1881 Foaming Characteristics
- ASTM D2570 Metal Protection

### Recommended Applications:

- Suitable in mixtures with all major coolant types service fill
- Dilute to desired freeze point with de-ionized water before use

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

**Typical Product Properties**

Characteristic	Shell Zone Multi-Vehicle Antifreeze/Coolant	Test Method
pH, 50% solution	7.5 - 8.5	ASTM D1287
Specific gravity @15.6°C/60°F	1.120 - 1.140	ASTM D1122
Freeze point, 50/50 Dilution, °C/°F	-37/ -34	ASTM D1177
Foam volume, ml	150 max.	ASTM D1881
Foam break time, second	5 max.	ASTM D1881
Reserve Alkalinity, ml	5.0 min.	ASTM D1121
Chloride, ppm	25 max.	ASTM D3634
Color and Odor	Pale Yellow; Characteristic Odor	
Glycol Content (wgt.%)	93 min.	
Inhibitors and Water Content (wgt.%)	7.0 max.	
Silicon (ppm)	< 10	ASTM D6130
Boron (ppm)	< 10	
Phosphorous (ppm)	< 10	

These characteristics are typical of current production. While future production will conform to Shell's specifications, variations in these characteristics may occur.

**Health, Safety & Environment****• Health and Safety**

Shell Zone 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 coolant. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet (SDS), which can be obtained from your Shell representative.

**• Protect the Environment**

Take used coolant to an authorized 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