



## Product Data Sheet

### **PolarZone™ Global Antifreeze & Coolant** **Long Life Antifreeze & Coolant**

#### **DESCRIPTION**

**Nemco PolarZone™ Global Antifreeze and Coolant is an extended life, ethylene glycol based engine coolant that features new additive technology to provide maximum protection against damaging rust and corrosion in all automobiles and light duty vehicles regardless of make, model, and year.**

**PolarZone™ Global Antifreeze and Coolant is fully compatible and designed to work well with original OEM coolants regardless of color, and provides extended service life up to 240,000 km (150,000 miles) or 5 years. The advanced organic acid additive formulation is suitable for use in European, Asian and North American automobiles which require phosphate and silicate free coolants.**

#### **Advantages**

- **Extended service life of 240,000 km (150,000 miles) or 5 years.**
- **Compatible for use in all automobiles and light duty vehicles regardless of make, model, year or original antifreeze color.**
- **Meets the performance requirements of GM6277M (DEX-COOL)**
- **Features a phosphate-free and silicate-free formula**
- **Meets the requirements of Japanese and European OEMs.**

#### **Meets and/or exceeds**

- **ASTM D-3306, D-4985**
- **TMC RP 302C**
- **GM 1825M, 1899M, 6277M**
- **SAE J1034, J1941, J814**
- **Suitable for European, Asian, and American automobiles which require phosphate and silicate free coolants.**



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## Typical Characteristics – Global Antifreeze

Test	Performance		Test Method
	Pure	50/50	
pH (50% water solution)	8.4		ASTM D1287
Appearance/colour	Clear / Yellow		
Specific gravity (15.6°C / 60°F)	1.1214	1.07	ASTM D1122
Freeze point °C (°F)	-15 (5)	-37 (-34)	ASTM D1177
Boiling point °C (°F)	173 (343)	108 (226)	ASTM D1120
Foam Height (ml), 33% solution Break time (sec), 33% solution	50 Max		ASTM D1881
Shelf life	5 years		
Total glycol (wt. %)	95.0 min	50 min	
Inhibitors and water (wt. %)	5 max	50 max	

*Physical characteristics shown in the table are typical and may vary slightly.*

## Corrosion Test Result (ASTM D1384)

Material Tested	Maximum Weight Lost Allowed, mg	Test Result, mg
Copper	10	1
Standard solder	30	0
Brass	10	1
Steel	10	1
Cast iron	10	0
Cast aluminum	30	4