



## Product Data Sheet

### **PolarZone™ Universal Antifreeze & Coolant** **Passenger Car and Light Duty Truck Antifreeze & Coolant**

#### **DESCRIPTION**

Nemco PolarZone™ Universal Antifreeze & Coolant is a superior quality ethylene glycol (EG) based engine coolant with a low silicate corrosion inhibitor package. This product protects coolant system metals (including heat-rejecting aluminum against pitting caused by cavitation and corrosion. It provides exceptional cooling in summer and excellent protection against freezing in the winter. It is recommended for use in older model domestic and foreign cars and light duty trucks and will provide up to 80,000 kms or two years of service life when installed as initial fill, or after a complete flush and cleaning of a cooling system in reasonable condition. It is compatible with supplemental coolant additives (SCA) and coolant filters and thus can be used in heavy duty diesel coolant systems when pre-charged with SCA.

#### **Advantages**

- Protects against winter freezing and summer boil over
- Prevents pitting caused by cavitation and corrosion of brass, copper, solder, steel, cast iron and aluminum components
- Low silicates, and Aluminum compatible
- Available as a concentrate or as 50/50 premix

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

- ASTM D-3306, D-4985
- Chrysler MS7170
- Ford ESE-M97B44-A
- GM 1825M, 1899M
- TMC RP 302B

**Note** - The 50/50 premix is generally recommended for the best balance of protection against freezing, corrosion and summer boil over.

**Typical Characteristics – Universal Antifreeze**

Test	Performance			Test Method
	Pure	50/50	60/40	
pH (50% water solution)	10-11			ASTM D1287
Appearance/colour	Clear / Green			
Specific gravity (15.6°C / 60°F)	1.1214	1.07	1.090	ASTM D1122
Freeze point °C (°F)	-15 (5)	-37 (-34)	-52 (-62)	ASTM D1177
Boiling point °C (°F)	173 (343)	108 (226)	110 (230)	ASTM D1120
Foam Height (ml), 33% solution Break time (sec), 33% solution	50 max 3 max			ASTM D1881
Shelf life	5 years			
Total glycol (wt. %)	95.0 min	50 min	60 min	
Inhibitors and water (wt. %)	5 max	50 max	40 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	4
Brass	10	2
Steel	10	2
Cast iron	10	3
Cast aluminum	30	3