



Product Data Sheet

PolarZone™ Universal Antifreeze/Coolant Gas and Light Duty Diesel Engines

Description

PolarZone™ Universal Antifreeze/Coolant is a superior quality Inorganic Acid Technology (IAT) ethylene glycol-based engine antifreeze/coolant with a low-silicate corrosion inhibitor package and is intended for use in automobile and light duty applications. This product protects coolant system metals (including heat-rejecting aluminum) against pitting caused by cavitation and corrosion.

PolarZone™ Universal Antifreeze/Coolant is recommended for use in older model domestic and foreign cars and light duty trucks. This product can provide a service life of 2 years or 80,000kms when installed as initial fill or after a complete flush and cleaning of a cooling system in reasonable condition and as indicated by the vehicle manufacturers manual. 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 corrosion of brass, copper, solder, steel, cast iron, and aluminum components
- Low silicates and phosphate-free
- Heavy duty diesel engine compatible with addition of SCAs

Applications

- Gas and light duty diesel engines
- Domestic and foreign, gas and light duty diesel engines manufactured prior to 1995

Meets or exceed the following specification standards and performance requirements:

- | | |
|-------------------------------------|-------------------------|
| • ASTM D3306, D4985 | • Ford New Holland 9-86 |
| • TMC RP 302 | • Case Corp MS 1710 |
| • GM 1825, 1899, 6038M low-silicate | • Freightliner 48-22880 |
| • Cummins 90T8-4 | • Volvo GM |
| • Caterpillar | • PACCAR |
| • Detroit Diesel 7SE298 | • MACK |
| • John Deere 8650-5 | • Navistar |



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Typical Characteristics – Nemco PolarZone™ Universal Antifreeze/Coolant

Properties	Method	Performance	
		Universal concentrate	Universal 50:50
Colour	Appearance	Green	Green
Specific gravity, 20°C (F)	Internal	1.112	1.07
pH	D1287	9.5 – 11	9.5 – 11
Freeze point, °C(F)	D3321	-15(5)	-37(-34.6)
Boiling point, °C(F)	D3321	163(325)	107(225)
Nitrite, ppm	D5827	1300 – 1700	800 – 1000
Glycol Content %	D3321	≥96	≥48

These characteristics are typical of current production, variations in these characteristics may occur.

Availability and product codes

Pack size	6x1.89Lcs	4x4Lcs	20L pail	205L drum	Bulk
Universal concentrate	AEAFZ0143*	AEAFZ0007	AEAFZ0045*	AEAFZ0069	AEAFZ0117
Universal 50:50 prediluted	AEAFZ0151*	AEAFZ0006	AEAFZ0044*	AEAFZ0068	AEAFZ0116*
Availability	Year round / Contact your local Sales Representative* <i>NEW as of October 2018**</i>				

Use and Storage

Coolant concentrate should be diluted prior to use. For best performance it is recommended coolant concentrate be premixed with distilled, deionized, or demineralized water. Dilution should not fall below a 40:60 (coolant/water) ratio at initial fill. Always check your vehicle manufacturer's specifications for coolant use. Coolant typically has a shelf life of 5 years under ideal storage conditions; keep packages closed while not in use, store in a cool and dry area.

Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at nemco.ca under the Safety Data Sheets. For SDS in French, please contact info@nemco.ca. This material is WHMIS 2015 classified. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used glycol to an authorized collection point. Avoid discharge into drains, soil, or water. As with any chemical, keep out of reach of children and animals.

Quality

Nemco works with respected industry suppliers for coolant additives and our ethylene glycol meets ASTM E1177. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001. For questions regarding quality, please contact your local sales representative.