



Product Data Sheet

PolarZone™ Global ELC Extended Service Antifreeze/Coolant Gas and Light Duty Diesel Engines

Description

PolarZone™ Global ELC Extended Service Antifreeze/Coolant is an organic acid technology (OAT) product intended for use in all automobiles and light duty fleet applications regardless of make, model, year, or original antifreeze/coolant colour. This product is an extended life coolant suitable for use in European, Asian, and American automobiles which require phosphate and silicate-free antifreeze/coolant. Use this product in accordance with engine manufacturer's recommendations.

PolarZone™ Global ELC Extended Service Antifreeze/Coolant provides corrosion protection to all standard metals and non-metal cooling system components. This product does not require SCA's at initial fill.

Advantages

- Eliminates need for SCA's and chemically charged filters
- Superior multi-metal corrosion inhibitors
- DOES NOT contain nitrites, phosphates, amines, silicates, or 2EHA
- Safe for elastomers used in hoses and gaskets

Applications

- Gas and light duty diesel engines

Meets or exceed the following specification standards and performance requirements:

ASTM 3306		
<ul style="list-style-type: none"> • Audi • BMW Mercedes Blatt 325.0, 325.2 • Chrysler MS7170, MS9769 • GM 6277M (DEX-COOL®), 6038M, 1825M, 1899M 	<ul style="list-style-type: none"> • Ford • Honda HES D2009-75 • Hyundai • Isuzu • Mazda MEZ MW 12 1D • Mitsubishi 	<ul style="list-style-type: none"> • Saab 6901 599 • Suzuki 0F02 • Toyota TSK26016 • Volvo 014 GS 17009 • VW TL774D (G11), TL774D (G12, TL774F (G12)

Typical Characteristics – Nemco PolarZone™ Global ELC Antifreeze/Coolant

Properties	Method	Performance	
		Global ELC Concentrate	Global ELC 50:50
Colour	Appearance	Yellow	Yellow
Specific gravity, 20°C (F)	Internal	1.112	1.063
pH	D1287	9.5 – 11*	9.5 - 11
Freeze point, °C(F)	D3321	-15(5)*	-37(-34.6)
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Properties	Method	Performance	
		Global ELC Concentrate	Global ELC 50:50
Boiling point, °C(F)	D3321	174(345)*	107(225)*
Nitrite, ppm	D5827	<1*	<10
Carboxylate, %	Test strip	n/a	n/a
Reserve Alkalinity	D1121	n/a	n/a
Glycol Content %	D3321	≥96*	≥48

These characteristics are typical of current production, variations in these characteristics may occur. Items with '*' display our product test results from a CALA accredited lab in conforming to ISO/IEC 17025.

Availability and product codes

Pack size	4x4L case	205L drum	Bulk
Global ELC concentrate	AEAFZ0060	AEAFZ0061*	AEAFZ0101*
Global ELC 50/50 prediluted	AEAFZ0062	AEAFZ0063*	AEAFZ0108*
Availability	Year round / Speak to a Sales Rep*		

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 to 8 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.