



Product Data Sheet

PolarZone™ Global HD Extended Service Antifreeze/Coolant Heavy Duty and Fleet Applications

Description

PolarZone™ Global HD Extended Service Antifreeze/Coolant is an organic acid technology (OAT) product intended for use in heavy duty and mixed fleet applications requiring a nitrite-free coolant. This product provides an extended service life when properly maintained in accordance with engine manufacturer's maintenance recommendations.

PolarZone™ Global HD 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 and can provide a service life of 8 years or 750,000km.

Advantages

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

Applications

- Mixed fleet and heavy duty diesel engines

Meets or exceed the following specification standards and performance requirements:

- ASTM D6210, D4340
- TMC RP329
- BMW Mercedes Blatt 325.0, 325.2
- Chrysler MS7170, MS9769
- Detroit Diesel 7SE298; DDC Powercool, DDC Powercool 3000
- Detroit Diesel 7SE298; DDC Powercool Plus, Powercool Plus 6000
- Freightliner 48-22880
- GSA A-A-52624, A-A-870A
- J.I. Case JIC-501, MS1710
- Mack Truck 014 GS17004
- MTU MTL5048, MTL5049
- TMC RP302A, RP338, RP329
- GM 6277M (DEX-COOL), 6038M, 1825M, 1899M
- Caterpillar CAT DEAC, EC-1, ELC*
- Volvo 014 GS 17009
- Cummins 90T8-4, CES14603
- Ford ESE M97B44-A, WSE M97B44-B, WSS M97B44-D, WSN-M97B18-C, WSS M97B51-A1
- Isuzu
- John Deere JDM H24B1, JDM H24C1, H5
- Navistar/International B-1, Type III (CEMS B-1)*

* With the addition of molybdate per specification

Typical Characteristics – Nemco PolarZone™ Global HD Antifreeze/Coolant

Properties	Method	Performance	
		Global HD Concentrate	Global HD 50:50
Colour	Appearance	Yellow	Yellow
Specific gravity, 20°C (F)	Internal	1.112	1.063

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Properties	Method	Performance	
		Global HD Concentrate	Global HD 50:50
pH	D1287	10.5 – 11	10.5 – 11
Freeze point, °C(F)	D3321	-15(5)	-37(-34.6)
Boiling point, °C(F)	D3321	174(345)	106(223)
Nitrite, ppm	D5827	<1	<1
Glycol Content %	D3321	≥96	≥48

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

Availability and product codes

Pack size	4x4L case	205L drum	Bulk
Global HD concentrate	AEAFZ0139	AEAFZ0140*	AEAFZ0137*
Global HD 50:50 prediluted	AEAFZ0141	AEAFZ0142*	AEAFZ0138*
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 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.