



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 up to 6 years or 965,000km (600,000 miles).

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, D3306 | • Kenworth |
| • Mercedes Blatt | • Mack Truck |
| • Cummins | • MTU |
| • Detroit Diesel | • MAN |
| • Ford | • Navistar/International |
| • Freightliner | • PACCAR |
| • GM | • Peterbilt |
| • John Deere | • Volvo |

Typical Characteristics – Nemco PolarZone™ Global HD Antifreeze/Coolant

Properties	Method	Performance		
		Global HD Concentrate	Global HD 50:50	Global HD 60:40
Colour	Appearance	Yellow	Yellow	Yellow
Specific gravity, 20°C(F)	D5961	1.124	1.080	n/a
pH	D1287	8.0 – 9.0	8.0 – 9.0	8.0 – 9.0
Freeze point, °C(F)	D3321	-15(5)	-37(-34.6)	-52(-61.6)

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Properties	Method	Performance		
		Global HD Concentrate	Global HD 50:50	Global HD 60:40
Boiling point, °C(F)	D3321	198(390)	106(223)	n/a
Glycol Content %	D3321	≥90	≥48	≥59
Nitrites, ppm	D5827	<1	<1	<1
Nitrates, ppm	D5827	650 - 800	350 - 425	390 - 480
Molybdenum, ppm	D5827	1200 - 1450	625 - 750	720 - 870
Glassware Corrosion Test	D1384	n/a	Pass	n/a
Water Pump Cavitation Test	D2809	n/a	Pass	n/a
Aluminum Corrosion Test	D4340	n/a	Pass	n/a
John Deere Cavitation Test	D7583	n/a	Pass	n/a

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*
Global HD 60:40 prediluted	-	AEAFZ0173*	AEAFZ0114*
Availability	Year round / *Speak to our Technical Sales Representative		

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 Technical Sales Representative.