



## **PRODUCT DATA SHEET**

# PolarZone™ Heavy Duty ESI Antifreeze/Coolant

## **Heavy Duty and Fleet Applications**

#### **Description**

PolarZone™ Heavy Duty ESI Antifreeze/Coolant is a premium quality (N)OAT (nitrited organic acid technology) antifreeze/coolant using nitrite and molybdate inhibitors, designed for use in heavy duty and fleet applications. This product can provide a service life of 965,000kms (600,000 miles) when properly maintained in accordance with engine manufactures maintenance recommendations.

This Extended Service Antifreeze/Coolant eliminates the need for Supplemental Coolant Additives (SCAs) at initial fill and provides unsurpassed corrosion protection to all standard metals and protection of non-metal cooling system components. The silicate and phosphate-free formulation minimizes the occurrence of deposits and hard water scale.

## Advantages

- Fully formulated; does NOT require initial charge of SCA
- Provides maximum protection against rust and corrosion
- Does NOT contain phosphates, amines, or silicates
- Extends service intervals; cost savings

#### **Applications**

- Mixed fleet diesel and gas heavy duty engines
- Phosphate-free requirements of European OEMs
- Silicate-free requirements of Japanese OEMs

#### Meets or exceeds

ASTM D6210, D3306

#### Suitable / Recommended for

- AS/NZS 2108.1:1997 Type A
- AS/NZS 2108:2004 Type A
- BS 6580
- BS 5117
- CATERPILLAR EC-1
- CID A-A-52624
- CID A-A-52624A
- CUMMINS 90T8-4
- CUMMINS CES 14603
- DETROIT DIESEL 7SE298
- DETROIT DIESEL 93K217
- FORD WSS-M97B51-A1
- FREIGHTLINER 48-22880
- FREIGHTLINER 48-25878
- GB 29743-2013
- GM HEAVY TRUCK
- ITE/NAVISTAR CEMS B-1
- ITE/NAVISTAR MPAPS B-1
- JIS K2234
- JOHN DEERE H24
- KENWORTH RO26-170-97
- KOMATSU
- MAN 324
- MB DBL 7700
- MACK 014GS17004
- MACK 014GS17009
- MACK SB 232-014
- MTU MTL 5048
- NEW HOLLAND WSN-M97B18-D
- PACCAR
- PACCAR CS0185
- PETERBILT 8502.002
- TMC RP 329
- TMC RP 338
- US FED A-A870-A
- VOLVO HEAVY TRUCK
- VOLVO / MACK
- VOLVO 128603
- WAUKESHA

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Typical Characteristics - Nemco PolarZone™ Heavy Duty ESI Antifreeze/Coolant

		Performance			
Properties	Method	ESI Conc.	ESI 50:50	ESI 60:40	
Colour	Appearance	Red			
SPG, 20°C(°F)	Internal	1.114	1.070	n/a	
рН	ASTM D1287	8.0 - 9.0	8.0 - 9.0	8.0 - 9.0	
Freeze point, °C(F)	ASTM D3321	-15(5)	-37(-34.6)	-52(-61.6)	
Boiling point, °C(F)	ASTM D3321	173(343)	106(223)	n/a	
Glycol Content, %	ASTM D3321	≥91	≥48	≥58.7	

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

### Availability and product codes

Pack size	4x4L case	2x10L case	20L pail	205L drum	1,000 Tote/Bulk	
ESI Conc.	AEAFZ0011	n/a	AEAFZ0049	AEAFZ0073	AEAFZ0105	
ESI 50:50	AEAFZ0010	AEAFZ0038	AEAFZ0048	AEAFZ0072	AEAFZ0104	
ESI 60:40	n/a	n/a	n/a	n/a	AEAFZ0189	
Availability	To order, contact us toll free 855-755-6737 or at orderdesk@nemco.ca					

### **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 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. These products contain bitterant to prevent accidental consumption. 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.

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