



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 and can provide a service life of 600,000miles (965,000kms) without the need for an extender.

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

- Gas and light duty diesel engines

Meets or exceed the following specification standards and performance requirements:

- ASTM D6210, D3306, D4985, D7583

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 | 1.124 | 1.080 |
| pH | D1287 | 8.0 – 9.0 | 8.0 – 9.0 |
| Freeze point, °C(F) | D3321 | -15(5) | -37(-34.6) |
| Boiling point, °C(F) | D3321 | 174(345) | 107(225) |
| Glycol Content % | D3321 | ≥96 | ≥48 |
| Nitrite, ppm | D5827 | <10 | <10 |
| Molybdate, ppm | D5827 | 450-650 | 250-400 |

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



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Availability and product codes

| Pack size | 6x1.89Lcase | 4x4L case | 205L drum | Bulk |
|-----------------------------|--|-----------|------------|------------|
| Global ELC concentrate | AEAFZ0145 | AEAFZ0060 | AEAFZ0061* | AEAFZ0101* |
| Global ELC 50/50 prediluted | AEAFZ0150 | AEAFZ0062 | AEAFZ0063* | AEAFZ0108* |
| Availability | Year round / Contact your local 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.