



Product Data Sheet

PolarZone™ Heavy Duty SCA Antifreeze/Coolant Heavy Duty and Fleet Applications

Description

PolarZone™ Heavy Duty SCA Antifreeze/Coolant is a premium quality ethylene glycol-based antifreeze/coolant designed for use in heavy duty diesel engines. It is pre-charged with a high quality Supplemental Coolant Additive (SCA), and there is no need to add additional SCA's at initial fill or when topping off to compensate for SCA dilution. This product is compatible with SCA chemical filters.

PolarZone™ Heavy Duty SCA Antifreeze/Coolant has a carefully balanced phosphate-free additive package that affords corrosion protection for cast iron, steel, solder, copper and brass and has been subjected to a wide variety of recognized industry tests designed to measure the coolant's ability to protect an engine from corrosion. This quality antifreeze has a low-silicate formulation and incorporates nitrite to provide superior wet sleeve liner cavitation corrosion protection.

Advantages

- Fully-formulated; DOES NOT require initial charge of SCA
- Provides excellent cavitation-erosion and corrosion protection
- Meets low silicate limits of GM 6038M
- Compatible with most major brands of conventional antifreeze
- Protects brass, copper, steel, solder, cast iron, and aluminum
- DOES NOT contain phosphates

Applications

- Mixed fleet and heavy duty diesel engines

Meet or exceed the following specification standards and performance requirements:

ASTM D3306, D4985, and D6210		
<ul style="list-style-type: none"> • Caterpillar • CID A-A 52624A • Cummins CES14603 • Detroit Diesel 7SE298 • EMD M.I. 1748E • Ford New Holland 9-86 	<ul style="list-style-type: none"> • Freightliner 48-22880 • GM 1899M, 1825M, 6038M • J.I. Case MS1710 • John Deere 8650-5 • MACK • Navistar 	<ul style="list-style-type: none"> • PACCAR • TMC of ATA RP329 • Thermo-King • Waukesha 4-1974D • Volvo GM

Typical Characteristics – Nemco PolarZone™ Heavy Duty SCA Antifreeze/Coolant

Properties	Method	Performance	
		SCA Concentrate	SCA 50:50
Colour	Appearance	Green	Green
Specific gravity, 20°C (F)	Internal	1.112	1.070
pH	D1287	10.5 – 11*	10 – 10.5*
Freeze point, °C(F)	D3321	-16(3.2)*	-37(-34.6)*

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Properties	Method	Performance	
		SCA Concentrate	SCA 50:50
Boiling point, °C(F)	D3321	168(335)*	106(223)*
Nitrite, ppm	D5827	2700 – 3100*	1300 – 1550*
Carboxylate, %	Test strip	n/a	n/a
Reserve Alkalinity	D1121	5.9 – 6.3*	2.8 – 3.1*
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 conforming to ISO/IEC 17025.

Availability and product codes

Pack size	4x4L case	20L pail	205L drum	1,000L tote	Bulk
SCA concentrate	AEAFZ0001	AEAFZ0046	AEAFZ0002	AEAFZ0102	AEAFZ0003
SCA 50:50 prediluted	AEAFZ0009	AEAFZ0047	AEAFZ0071	AEAFZ0103	AEAFZ0119
SCA 60:40 prediluted	AEAFZ0008*	-	AEAFZ0070*	-	AEAFZ0118*
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.