



HEAVY DUTY

ELC NF

NITRITE-FREE EXTENDED LIFE COOLANT/ANTIFREEZE

DESCRIPTION

PEAK® Heavy Duty ELC NF Extended Life Nitrite-Free Coolant/Antifreeze has been developed to meet the changing requirements of Domestic, European and Asian OEMs. Because nitrite from OAT HD formulations can cause aluminum corrosion in the presence of brazing residues, the latest Detroit Diesel, and Mercedes-Benz (MB) engines and vehicles are currently factory-filled with nitrite-free extended life technology. The nitrite-free formulation is based on proven carboxylate organic acid technology (OAT) and is designed for use in all diesel, gasoline and natural gas engines from light, medium, to heavy duty on-highway applications. The nitrite-free inhibitor system provides complete CAB (Controlled Atmospheric Braze), corrosion and erosion protection while maintaining optimum heat transfer conditions for total HD engine system performance.

BENEFITS

- PEAK® Heavy Duty ELC NF Coolant/Antifreeze is a glycol-based, nitrite, nitrate, borate, phosphate, silicate, and amine-free formulation, and if used as directed, will deliver these benefits:
- Excellent heat transfer due to OAT technology compared to conventional silicate containing coolants
- Year-round protection against freeze-up down to -34°F/-37°C and high temperatures boilover up to 265°F/129°C*
- Improved water pump seal life due to silicate-free environment, as well as protection against cavitation erosion, and corrosion wear
- Complete corrosion protection of all engine and cooling system metals including aluminum, brass, copper, solder, steel and cast iron
- Extended service life of up to 1,200,000 miles/24,000 hours† or 6 years in normal operating conditions, without the use of extenders or SCAs; up to 150,000 miles or 5 years of service in light duty and medium duty applications with regular inspection and adjustment of coolant condition and level as recommended by the vehicle manufacturer
- Compatibility with other conventional and extended life antifreeze/coolants**

*Dilution/mixing with non-equivalent coolants will reduce or eliminate the extended life nitrite-free properties. PEAK® recommends that this product not be diluted by more than 20% with other coolant formulation (like conventional "green" or HD SCA pre-charged type)

**With the addition of an extender at 600,000 miles or 12,000 hours

APPLICATIONS

- PEAK® Heavy Duty ELC NF Coolant/Antifreeze is designed and recommended for use in:
- On-highway heavy duty vehicles and commercial/stationary engines operated on diesel, gasoline, natural gas, propane, LPG, biofuels, or methane waste gas, where the OEM recommends a nitrite, silicate and phosphate-free coolant with no addition of extenders or SCAs
- Mixed fleets where automobiles, light, medium, and on-highway heavy duty vehicles are being used and serviced, and the OEM recommends a nitrite, silicate, phosphate, borate, and/or amine-free product
- European equipment where the OEM allowed to use 2-EH and requires phosphate, amine, and nitrite-free coolant
- Japanese equipment where the OEM specifies silicate and nitrite-free products
- Recreational vehicles requiring nitrite and silicate-free products
- On-road cooling system applications



Meets these specifications:

- ASTM D3306
• ASTM D6210
• ASTM D4985
• TMC RP 329
• TMC RP 364

Meets these performance requirements:

- Cummins CES 14439 - for medium and heavy duty on-road engine applications
• DAF 74002
• Detroit Fluids Specification 93K217
• Ford WSS-M97B44-D
• Freightliner 48-25878
• GM 6277M
• PACCAR
• MAN 324 Type SNF
• Mercedes DBL 7700/325.3
• MTU MTL 5048
• Navistar MPAPS B-1 Type IIIA (formally CEMS B-1)
• Volvo TSI 184-001

Recommended for use:

- Deutz Stationary Diesel Engines
• GE-Jenbacher Stationary Natural Gas Engines
• Hino Truck Engines
• Isuzu Track Diesel Engines
• Kobelco Construction Equipment Diesel Engines
• Komatsu Construction Equipment Diesel Engines
• Scania Truck Diesel Engines
• Volvo Construction Equipment Diesel Engines
• Mack Truck Diesel Engines
• Wartsila Stationary Diesel Engines
• European MD and HD OEM's that require Phosphate and Nitrite-Free engine coolant formulations
• Asian MD and HD OEM's that require Silicate and Nitrite-Free engine coolant formulations

Table with 2 columns: FREEZE/BOIL PROTECTION CHART and PROTECTS FROM. The chart shows Freezing Down to -34°F (-37°C) and Boiling Up to* 265°F (129°C).

*Using a 15 psi pressure cap

Dilution/mixing with non-equivalent coolants will reduce the extended life nitrite-free properties. Not to be diluted by more than 25% with other coolant formulation (like conventional "green" or HD SCA precharged type).

For optimum performance and corrosion protection, 50/50 Prediluted coolant concentration should be maintained at 50% by volume.

Table with 3 columns: FREEZE/BOIL PROTECTION CHART, Coolant/Water Ratio, and PROTECTION FROM. It shows ratios of 50/50, 60/40, and 70/30 with corresponding freezing and boiling points.

*Using a 15 psi pressure cap

Dilution/mixing with non-equivalent coolants will reduce the extended life nitrite-free properties. Not to be diluted by more than 25% with other coolant formulation (like conventional "green" or HD SCA precharged type).

For optimum performance and corrosion protection, coolant concentration should be maintained between 40-60% by volume.



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PROPERTIES	ASTM METHOD	TYPICAL VALUES
Appearance, Color	Visual	Red
Freezing Point, °F/°C	ASTM D1177, ASTM D6630, ASTM D3321	-
40% (2 parts of antifreeze/3 parts of water)	ASTM D6660	-12/-24
50% (1 part of antifreeze/1 part of water)	ASTM D3321	-34/-37
60% (3 parts of antifreeze/2 parts of water)	-	-62/-52
Boiling Point, 50 Vol. %, °F/°C (1 part of antifreeze/1 part of water)	ASTM D 1120	265/129
Reserve Alkalinity, ml	-	3 minimum
Silicate, Phosphate, Nitrite, ppm	ASTM D 1121	None
pH, 50% (1 part of antifreeze/1 part of water)	ICP	8 minimum
Shelf Life (unused, stored in unopen original container)	ASTM D 1287	Concentrate: 3 years/ 50/50: 5 years

**Using a 15 psig (103 kPa) pressure cap in good condition.
These characteristics are typical of current production. Minor variations in future production are to be expected and may occur.*

Part#	Unit	Pack/Size	Dimensions	Unit Wt (lbs)	Units per Pallet	Pallets per Truck	Pallet Weight***
ELAXB3	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	60	36	20	2,210
ELAXB1	Drum	55 Gal	23.5" Dia. x 34.5" H	553	4	20	2,262
ELAXB8	Tote	275 Gal	40" W x 48" D x 46" H	2,640	1		2,640
ELABX3	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	57	36	20	2,102
ELABX1	Drum	55 Gal	23.5" Dia. x 34.5" H	525	4	20	2,150
ELABX8	Tote	275 Gal	40" W x 48" D x 46" H	2,502	1		2,502

***Includes pallet weight of 50 lbs each

CONCENTRATE

ELAXB3
1 Gallon Concentrate Bottle
Gallon UPC: 0-74804-06427-8
Case UPC: 0-74804-16427-5
Case SCC 14: 1-00-74804-06427-5

ELAXB1
55 Gallon Concentrate Drum
UPC: 0-74804-06428-5

ELAXB8
275 Gallon Concentrate Tote
UPC: 0-74804-06249-2



50/50 PRE-DILUTED

ELABX3
1 Gallon 50/50 Bottle
Gallon UPC: 0-74804-06386-8
Case UPC: 0-74804-16386-5
Case SCC 14: 1-00-74804-06386-5

ELABX1
55 Gallon 50/50 Drum
UPC: 0-74804-06413-1

ELABX8
275 Gallon 50/50 Tote
UPC: 0-74804-06414-8



ADDITIONAL INFORMATION

Testing Requirements: For proper freeze and boilover protection, use a traditional refractometer or hydrometer to measure the percentage of ethylene glycol by volume.

Storage Recommendations: PEAK® ELC NF Coolant/Antifreeze can be stored in original container at ambient temperature and limited periods of exposure to temperatures above 95°F (35°C) for 3 years Concentrate/ 5 years 50/50 provided the container remains sealed. Product should be agitated before dilution or use.

Safety and Environmental Guidance: PEAK® ELC NF Coolant/Antifreeze is based on virgin ethylene glycol and should be kept away from children and animals to prevent exposure. A bittering agent is added to help reduce the potential for accidental ingestions of this product. More information with guidance on health, safety and disposal is available on the appropriate Safety Data Sheet, which can be obtained from peakhd.com. Always dispose of used coolant in accordance with local, state and Federal guidelines.



**To order, please call Old World Industries
Customer Service at 1-800-323-5440**

**For Technical Product Support,
please call 1-800-477-5847**

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