bluesky FLUID SOLUTIONS

HD NOAT ELC

PREMIUM COOLANT & ANTIFREEZE



CORROSION, CAVITATION, SCALE & DEPOSIT PROTECTION

ALL SEASON FREEZE & BOILOVER PERFORMANCE

NITRITE ENHANCED ORGANIC ACID TECHNOLOGY (NOAT)

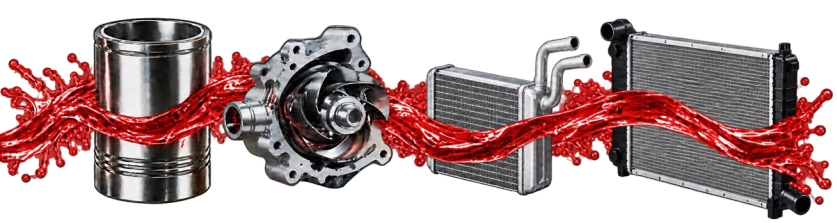
750,000 MI 15,000 HRS 8 YRS*

BLUE SKY® HD NOAT ELC PREMIUM COOLANT AND ANTIFREEZE is an ethylene glycol-based formula for cooling systems requiring nitrite enhanced extended life coolant technology. It combines nitrite, organic inhibitors, and proprietary scale control technology to provide long-lasting cooling system protection, optimized heat transfer performance, and extended service life across on-road, off-road, and industrial applications.

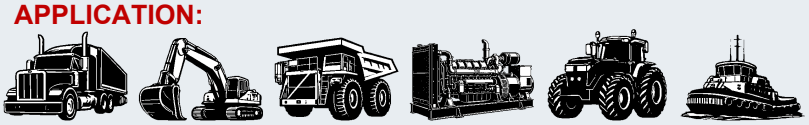
BLUE SKY® HD NOAT ELC is phosphate, borate, silicate, and amine free. With proper maintenance*, provides cooling system protection without Supplemental Coolant Additives (SCAs) or chemically charged filters for up to 750,000 miles on-road, or up to 8 years / 15,000 hours in off-road and stationary service, whichever occurs first.

BENEFITS

- **THERMAL PERFORMANCE:** Proprietary scale control and surfactant technology prevents deposits and scale buildup to ensure optimum heat transfer. Engineered for high-temperature platforms equipped with **EGR** and **SCR** emission control systems.
- **MULTI-COMPONENT PROTECTION:** Provides long-lasting protection against corrosion, erosion, and cavitation for all cooling system metals, wet sleeve cylinder liners, and water pumps.
- **COMPATIBILITY:** Formulated to maintain corrosion protection when mixed with other coolants, provided coolant contamination or mixing levels are kept below **25% by volume.**
- **LIFE-OF-ENGINE SERVICE*:** Provides additional extended service protection up to 1,000,000 miles / 20,000 hours / 10 years with a compatible OAT extender added at 750,000 miles / 15,000 hours / 8 years.



APPLICATION:



MEETS THE PERFORMANCE REQUIREMENTS OF:

- ASTM D3306, D6210, D4340, D4985
- TMC RP329, RP364A, RP338B, RP351 (COLOR)
- SAE J1034

- CUMMINS CES 14439
- NAVISTAR MPAPS B-1 TYPE III
- DEUTZ DQC CB-14
- VOLVO/MACK STD 418-0005
- CATERPILLAR EC-1
- PACCAR CS0185
- WAUKESHA 4-2429H
- JOHN DEERE H24A1, H24C1

PERFECT FIT FOR:

- MARINE, RAIL & POWER GEN SYSTEMS
- All GAS, DIESEL, NG, & CNG ENGINES
- STATIONARY ENGINE COOLING SYSTEMS
- CLASS 4-8 MIXED FLEETS
- ON-/OFF-ROAD HD
- AG & MINING MACHINERY

CUMMINS | CATERPILLAR | KOMATSU | NAVISTAR | VOLVO | MACK
FREIGHTLINER | WESTERN STAR | NEW HOLLAND | JOHN DEERE
WHITE-SUPERIOR | INTERNATIONAL | PETERBILT | WAUKESHA
WÄRTSILÄ | KENWORTH | KOBELCO | SCANIA | DEUTZ
PACCAR | ISUZU | HINO | DAF
CASE | FORD | GM

FREEZE & BOILOVER PROTECTION CHART

COOLANT/ WATER RATIO	FREEZE PERFORMANCE	BOILOVER PERFORMANCE
40/60	-13°F (-25°C)	260°F (127°C)
50/50	-34.6°F (-37°C)	265°F (129°C)
60/40	-62°F (-52°C)	270°F (132°C)

At sea level atmospheric pressure with a 15 psi pressure cap. The boiling point decreases by about 2˚F per 1,000 ft of elevation gain and increases by approximately 2.5˚F for each additional psi of system pressure

DILUTION & PERFORMANCE: Formulated to provide complete corrosion protection at a minimum concentration of **33% by volume**. For optimum thermal and anti-corrosive performance, maintain system concentration between **40%–60%** by volume, with a **50% dilution ratio** ideal for most operating climates.

Recommended for use where nitrite-containing **NOAT ELC** is specified or permitted by the OEM or selected by the operator for compatible service fill. **Always consult the owner's manual before use.**

For **LIFE-OF-ENGINE** protection up to 1,000,000 miles, 20,000 hours, or 10 years, whichever occurs first. Follow proper maintenance*, and the system must be treated at the required service point of 750,000 miles, 15,000 hours, or 8 years, using a compatible OAT extender according to the manufacturer's instructions.

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HD NOAT ELC

PREMIUM COOLANT & ANTIFREEZE

PRODUCT INFORMATION	METHOD	TYPICAL VALUES		
CONCENTRATION	---	FULL STRENGTH	50/50 MIX	40/60 MIX
APPEARANCE / COLOR	Visual	RED	RED	RED
pH	D1287	8.0 - 9.0 @50% vol.	8.0 - 9.0	8.0 - 9.0
SPECIFIC GRAVITY at 60/60° F	D1122, D5931	1.110 - 1.130	1.065 - 1.080	1.045 - 1.080
RESERVE ALKALINITY	D1121	5 min	2.5 min	2 min
ASH CONTENT	D1119	5 Wt.% max	2.5 Wt.% max	2.0 Wt.% max
FREEZE POINT	D1177, D6660	-34.6°F (-37°C) @ 50% VOL	-34.6°F (-37°C)	-13°F (-25°C)
BOILING POINT**	D1120	325°F (163°C)	226°F (108°C)	223°F (106°C)
STORAGE	---	10 Years when unopened and stored properly | 3 years after opening		

**** At Atmospheric Pressure**

FS PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDNOATCNRD01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	59	36	20	2,174
BSHDNOATCNRD05	Pail	5 Gal	12.5" Dia x 15" H***	49	45	20	2,255
BSHDNOATCNRD55	Drum	55 Gal	23.5" Dia. X 34.5" H	569	4	20	2,326
BSHDNOATCNRD275	Tote	275 Gal	48" L x 40" W x 46" H	2,692	1	14	2,692
BSHDNOATCNRD	Bulk	4,850 Gal	---	45,158	---	---	---

50/50 PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDNOAT50RD01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	55	36	20	2,030
BSHDNOAT50RD05	Pail	5 Gal	12.5" Dia x 15" H***	47	45	20	2,165
BSHDNOAT50RD55	Drum	55 Gal	23.5" Dia. X 34.5" H	537	4	20	2,198
BSHDNOAT50RD275	Tote	275 Gal	48" L x 40" W x 46" H	2,595	1	14	2,595
BSHDNOAT50RD	Bulk	4,950 Gal	---	44,273	---	---	---

***Total weights include estimated tare weights: 50 lb per pallet, 0.45 lb per 1-gal bottle, 2.25 lb per 5-gal pail, 45 lb per 55-gal drum, and 135 lb per tote/IBC.**

FULL STRENGTH | FS



PN: BSHDNOATCN275
275 Gallon FS Tote
UPC:850081544562



PN: BSHDNOATCNRD05
5 Gallon FS Pail
UPC:850081544807



PN: BSHDNOATCNR55
55 Gallon FS Drum
UPC:850081544555



PN: BSHDNOATCNRD01
1 Gallon FS Bottle
UPC:850081544517
CASE UPC:00850081544401
CASE SCC14:10850081544408

50/50 PREDILUTED



PN: BSHDNOAT50RD275
275 Gallon 50/50 Tote
UPC:850081544593



PN: BSHDNOAT50RD05
5 Gallon 50/50 Pail
UPC:850081544586



PN: BSHDNOAT50RD55
55 Gallon 50/50 Drum
UPC:850081544579



PN: BSHDNOAT50RD01
1 Gallon 50/50 Bottle
UPC:850081544524
CASE UPC: 00850081544418
CASE SCC 14:1085008154441

ADDITIONAL INFORMATION

TESTING RECOMMENDATIONS:

- For proper freeze and boilover protection and to maintain proper system performance, use a digital refractometer in accordance with ASTM D3321 to determine ethylene glycol percent or concentration by volume.
- Semiannual coolant analysis is recommended as part of routine maintenance to evaluate inhibitor levels, pH, reserve alkalinity/buffering capacity, coolant degradation, and corrosion products.

STORAGE, HANDLING, SAFETY, & ENVIRONMENTAL RECOMMENDATIONS:

- Keep in original packaging. Store indoors at ambient temperatures, shielded from direct sunlight. Minimize prolonged exposure to temperatures above 95°F (35 °C). Maintains maximum stability for up to 10 years when properly stored in an unopened, sealed container. Agitate thoroughly before use or dilution.
- Formulated with virgin ethylene glycol; keep away from children and animals. A bittering agent is added to reduce the risk of accidental ingestion. Review the Safety Data Sheet (SDS: FS: 108880, & 50/50: 74486) at www.BLUESKYDEFNA.com for full health, safety, and disposal guidance. Always dispose of used coolants in accordance with local, state, and federal regulations.

FLUID MAINTENANCE PROGRAM & TECHNICAL SUPPORT

- *Requires proper maintenance including a complete cooling system flush and initial fill with BLUE SKY® HD NOAT Extended Life Coolant/Antifreeze, followed by top-off as needed with BLUE SKY® HD NOAT 50/50 Prediluted Coolant/Antifreeze or properly diluted BLUE SKY® HD NOAT Concentrate.
- The BLUE SKY technical team can provide Fluid Maintenance Program Support to help maintain equipment uptime through routine fluid analysis designed to confirm coolant condition and monitor maintenance practices to ensure that the maximum coolant life is achieved.
- For Quality & Tech Support, contact: **QC@blueskydefna.com**

BLUE SKIES AHEAD™

PURE PERFORMANCE IN EVERY POUR

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