



PRODUCT BULLETIN

NALCOOL 4070

HEAVY DUTY LONG LIFE COOLANT CONCENTRATE

Product Description: **4070 Diesel Engine Coolant** is a low silicate, phosphate-free and amine-free, fully formulated, hybrid organic technology, **automotive** and **heavy-duty** diesel engine coolant concentrate. This product does not require a charge of Supplemental Coolant Additive (SCA) during the initial fill. The product was designed for use in both automotive and heavy-duty diesel applications and is compatible with heat rejecting aluminum surfaces.

Benefits: **Long Life, Hybrid organic acid technology** – 1,000,000km / 4 years or 12,000 hours prior to first SCA requirement in a heavy-duty diesel application.

No initial charge of supplementary coolant additive (SCA) required. (Not required to meet ASTM D6210).

Universal use – meets or exceeds standard industry requirements for automotive and heavy-duty diesel applications for a fully formulated anti-freeze anti-boil concentrate.

Product is compatible with other engine coolants; although to get best performance (regarding issues such as long life and time between SCA addition), it is best to flush the old coolant and replace with Nalcool 4070 at a 50% blend.

Dosage: Nalcool 4070 is glycol based coolant inhibitor concentrate that provides freeze and boil protection. Product to be diluted at recommended blend of 50/50, volume/volume with quality water.

Handling: Reference: M.S.D.S for Nalcool 4070 before using this product.

Service: Technical representatives can assist in the evaluation and implementation of a treat program involving this product.

Full technical support of a NATA registered laboratory is available as part of Nalco's in-plant service.



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Specifications: Nalcool 4070 H/Duty Long-Life Coolant Concentrate meets or exceeds the performance requirements of the following engine coolant specifications:

OEM / Agency	Specifications	OEM / Agency	Specifications
ASTM	D-3306 / D-4985 / D-6210	Daimler Chrysler	MS 7170, MS9769
AS/NZS	2108.1:1997 Type A	Ford	ESE-M97B44A, ESE-M97B18-C
JIS	K 2234	Ford	WSS-M97B51-A1
Caterpillar	EC 1	Freightliner	48-2288D
Cummins	Bulletin CES14603	Kenworth	RO26-170-97
Detroit Diesel	Bulletin # 7SE 298	New Holland	WSN-M97B18-D
GM	1825M / 1899M, GM Heavy Truck	Peterbilt	8502.002
John Deere	JDM HD24	Perkins	D-4985 / D-3306
MAN	324	Volvo	Heavy Truck
Massey Ferguson	D-4985 / D3306	US Federal	A-A-870-A
Mack	ASTM D-4985, Heavy Truck, Mack E7	TMC	RP 329
Mercedes-Benz	DBL 325.2.	GMH/Isuzu	HN2217
MTU	(EVP 1 1827/MTL 5048)	Nissan	ASTM D-3306/ ASTM D-4985
SAE	J 1034 / J 1941	Mitsubishi	AS/NZS 2108.1
Saab-Scania	6901	Renault	Type D

Nalcool 4070 H/Duty Long-Life Coolant Concentrate Physical and Chemical Properties.

Test	Performance	Test Method	Test	Performance	Test Method
pH (50% v/v)	7.6-8.5	ASTM: D-1287	Reserve Alkalinity, ml	6.0 min.	ASTM: D-1121
Specific Gravity (15.6°C)	1.125 – 1.135	ASTM: D-1122	Freeze Point (50%v/v)	-37°C / -34°C	ASTM: D-1177
Foam Volume (ml)	50 max.	ASTM: D-1881	Break Time (sec)	5 max.	ASTM: D-1881
Flash Point	116°C / 240°F	ASTM: D-92	Fire Point	120°C / 248°F	
Ash Content (wt. %)	5 max.	ASTM: D-1119	Odour	Characteristic	
Colour	Green		Total Glycols (Weight %)	94.0 min	
Inhibitors & dye (weight%)	5.0 max		Total Apparent Water (Weight%)	3.5 max.	
Chloride ppm	25 max.		Silicon ppm	185 max.	

Instructions For Use:

Before Treatment:

- Drain the existing coolant and chemically clean the system if necessary, to remove any rust dirt or oil and built up residue.
- Use **Nalco LB510** Radiator Cleaner.
Initial Dosage: - Add Nalcool 4070 blended at 50% with quality water.
Preventative maintenance: If coolant is lost from the system, always top up with Nalcool 4100 Premix (Pre-Blended at 50%) or Nalcool 4070 concentrate at the recommended dose rate.

Passenger Vehicles:

- There is no requirement to replenish inhibitor during the life of the coolant. Coolant should be drained and replaced within 4 years or more often in adverse conditions. Always flush and use a Nalcool radiator cleaner between coolant changes.

Heavy Duty Diesel Vehicles:

- These vehicles do not require the coolant to be re-dosed at regular intervals or replacement of expensive water filters. Performance period is 1,000,000 kms 4 years or 12,000 hours whichever occurs first. Top up with Nalcool 4100 premix or Nalcool 4070 concentrate at the recommended dose rate.
Always pre-condition the cooling system with Nalco radiator cleaner **LB510** between coolant changes to obtain maximum cooling system efficiency.

Quality: NALCO AUSTRALIA is licensed as a Quality Endorsed Company under Australian Standards.
AS3901 (ISO9001), Lic. No. QEC0063.