



PRODUCT DATA SHEET

ADNOC Auto Cool LL

33%, 50%, 100%

DESCRIPTION

ADNOC Auto Cool LL is a long life, single phase, ethylene glycol antifreeze/coolant based on advanced technology of organic inhibitor additives. It is compatible with all standard rubber hoses, gaskets and seals used within the cooling system and does not foam or clog radiators. It is available in concentrate and various ready-to-use diluted versions. It is based on OAT (Organic Additive Technology) chemistry, environmentally safe as there are no harmful additives such as Nitrites and Amines. It is also free from Phosphates and Silicates (NAPS free). It provides outstanding high temperature protection of cooling systems metals including aluminum

APPLICATIONS

ADNOC Auto Cool LL works on all engines employing cast iron, aluminum, copper or combination of these metals used in modern engines and heavy duty engines where environmental controls are severe and where OEMs recommend extended life and salt free coolants. It is applicable in mixed fleet as well as marine cooling systems. It protects cooling systems of gasoline and diesel engine against rust and corrosion in all seasons. Especially engines working under severe working conditions. It provides ideal cooling, effective protection against corrosion and scale deposit formation in the cooling systems year-round, resulting in longer cooling system life for at least 250,000km/5 years for passenger cars, 650,000km/5 years for trucks and buses on-road use and 8000h for off-road/stationery engines use.

BENEFITS

- High boiling point provides efficient protection at high temperatures
- Excellent anti-foam properties
- Protects the radiator against rust & corrosion
- Compatible with ordinary summer coolant
- Does not contains abrasive inhibitors
- Improved heat transfer
- Provides year round cooling properties

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PERFORMANCE

ADNOC Auto Cool LL is suitable for use where the following specifications are required:

BS 6580

ASTM D3306/D4656/D6210

Case New Holland MAT 3624

CAT A4.05.09.01

Cummins IS Series u N14

DAF 74002

GM 6277/GMW3420

Mercedes Benz 325.3 (100%)

Mercedes Benz 326.3 (50%)

Detroit Diesel Series 50&60

Deutz/MWM 0199-99-2091/8

Ford/Land-Rover WSS-M97B44-D

Komatsu 07.892

MAN 324 Type SNF

MTU MTL 5048

Wärtsilä DLP799861

VW VW/Audi TL-774F (G12+)

Hyundai/Kia

Jenbacher TA 1000-0204

Korean Standards KSM 2142

Liebherr MDI-36-130

Mazda MEZ MN 121D

Porsche

Volvo

PRODUCT TYPICAL CHARACTERISTICS

Properties	Unit	33%	50%	100%	Test Methods
Color	-	Fluorescent Green			Visual
Density@20°C	kg/L	1.054	1.079	1.113	ASTM D1122
Reserve Alkalinity	mL	2.0	2.8	5.0	ASTM D1121
pH@20°C	-	8.2	8.3	8.3	ASTM D1287
Boiling Point*	°C	105	110	172	ASTM D1120
Freezing Protection (33%)	°C	-18		-	ASTM D1177
Freezing Protection (50%)	°C	-	-37	-	ASTM D1177
Foam					
- Volume	mL	50			ASTM D1881
- Break Time	s	<5			
Flash point, COC	°C	106	112	146	ASTM D92
Ash content	%mass	<0.8			ASTM D1119
Effect on Automotive Finish	-	No effect			ASTM D1882
Amine, Borate, Nitrate, Nitrite, Phosphate, Silicate	mg/L	<10			NAPS free

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PRODUCT TYPICAL CHARACTERISTICS

Test Metal	Unit	Result	Test Method
Copper	mg/specimen (weight loss)	1.9	ASTM D 1384
Solder		0.1	
Brass		1.6	
Steel		-0,5*	
Cast Iron		-1,4*	
Aluminum		4.6	

*Negative figures means weight gain

Minor variations in product typical test data are to be expected in normal manufacturing.

Always follow the Original Equipment Manufacturer's recommendation (OEM) for the equipment operating conditions, product specification, drain interval and customer's maintenance practices.

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