

## Maxol Long Life Coolant

### Description:

Maxol Long Life Coolant is an ethylene glycol based engine coolant concentrate, which uses Organic Acid Inhibitor Technology and is free from nitrites, amines, phosphates, borates and silicates. BTC Classification Type 4E. Fleet trials have shown that when used at the correct concentration coolants based on Organic Acid Inhibitor Technology continues to provide effective corrosion protection for up to 250,000 km for passenger cars and 500,000km in commercial vehicles. It is recommended that the coolant is replaced when the above mileages have been reached or after 5 years whichever is the sooner. Unlike traditional coolants which employ inorganic inhibitors, our Long Life has excellent hard water stability and very low inhibitor depletion rates.

### Compatibility with other coolants:

Maxol Long Life Coolant is compatible with other ethylene glycol based coolants and can be safely mixed with them. As Long Life Coolant employs an inhibitor technology that is significantly different from that used in traditional coolants we recommend that prior to using Long Life Coolant in systems previously filled with traditional coolant that the cooling system is drained and flushed with clean water before filling with Long Life diluted in accordance with the vehicle manufacturers instructions to ensure optimum performance and durability. Failure to do so can significantly reduce the working life of the Long Life Coolant. In the absence of a vehicle manufacturer's advice we would recommend a 50% dilution of Long Life Coolant in good quality water.

### Important:

Always observe the manufacturers specifications when selecting products.  
Maxol Lubricants reserve the right to change this product specification without notice.

### Performance Level:

ASTM D3306
ASTM D 4985
SAE J 1034
BS 6580 (2010)
AFNOR NF R15-601 *
FFV Heft R443
CUNA NC 956-16
UNE 26361 - 88
JIS K 2234 *
NATO S 759
Chrysler MS 9176
Cummins CES 14603
Ford ESE M97B49-A, WSSM97B44-D & ESD M97 B49-A
GM 1899 M, US 6277 M & OPEL GM QL130100
John Deere H 24 B1 & C1
Leyland Trucks LTS 22 AF 10
Mack 014GS 17004
MAN 248, 324 (SNF) & B&W D 36 5600
Mercedes MB 325.3
Renault 41-01-001-D
VAG TL 774D/F
VOLVO

(\* with the exception of reserve alkalinity)

## Physical Properties:

Parameter	Method	Maxol Long Life Coolant	ASTM D3306
Appearance	Visual	Clear red - orange liquid free from suspended matter	Not Specified
Specific Gravity 15/15°C	ASTM D 4052	1.125	1.110 - 1.145
Equilibrium Reflux Boiling Point °C	ASTM D 1120	174	163min
Freezing Point °C (50% Dilution by vol.)	ASTM D 1177	-40	-37max
Freezing Point °C (33% Dilution by vol.)	ASTM D 1177	-20	
pH (50% vol.)	ASTM D 1287	8.0	7.5 - 11.0
Reserve Alkalinity 0.1N HCl	ASTM D 1121	7.5	Report
Water Content	ASTM D 1123	3.0	5 max
Foaming Properties			
Vol. (ml)	ASTM D1881	45	150 max
Break (s)	ASTM D 1881	1	5 max

## Freeze Protection:

	Concentration by Volume %				
	25	33	40	50	60
Specific Gravity 20/4°C	1.030	1.045	1.060	1.074	1.087
Freeze Protection * °C	-12	-22	-27	-40	-56

(\* Average of Freezing point and pour point)

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## Corrosion Protection:

### ASTM D1384 Glassware Corrosion Test Results.

	Weight Loss mg/ Coupon					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Maxol Long Life Coolant	1.0	0.6	-0.7	1.9	0.1	-0.7

### ASTM D 4340 Corrosion of Aluminium under heat rejecting conditions

	Weight Loss mg/ cm <sup>2</sup> / week
ASTM D3306 (max)	1.0
Maxol Long Life Coolant	0.2

### ASTM D2570 Simulated Service Test Results.

	Weight Loss mg/ Coupon					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D2570 (max)	20	60	20	20	20	60
Maxol Long Life Coolant	2	3	2	2	1	5

### ASTM D2809 Cavitation Corrosion Characteristics of Aluminium Pumps

	Visual Rating
ASTM D 2809 (min)	8
Maxol Long Life Coolant	9

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