

Maxol Antifreeze

Description:

Maxol Antifreeze is an ethylene glycol based engine coolant concentrate formulated for use in all engines including those constructed from aluminium alloys. It employs established inhibitor technology and is nitrite, amine and phosphate (NAP) free and includes borate and silicate. BTC classification Type 2E.

Maxol Antifreeze uses sophisticated silicate stabilisation technology to eliminate the potential for formation of silicate gel often observed with inferior products whilst other additives ensure good compatibility with hard water and prevent the formation of scale that can result from use of hard water.

Physical Properties

Parameter	Method	Maxol Antifreeze	ASTM D3306
Appearance	Visual	Clear Liquid *	Not Specified
Density at 20oC	ASTM D	1.145	1.110 – 1.160
Equilibrium Reflux Boiling Point oC	ASTM D	166	163 min
Freezing Point oC (50% Dilution by vol.)	ASTM D	-38	-37 max
Freezing Point oC (33% Dilution by vol.)	ASTM D	-19	
pH (50% vol.)	ASTM D	8.4	7.5 – 11.0
Reserve Alkalinity 0.1N HCl	ASTM D	21.0	Report
Water Content	ASTM D	4.7	5 max
Foaming Properties	Vol (ml.)	ASTM D1881	150 max
	Break (s)		5 max

Important:

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

Maxol Lubricants Ltd.

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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 Antifreeze	0.8	4.0	1.5	-1.1	-2.0	2.1
ASTM D 4340 Corrosion of Aluminium under heat rejecting conditions						
	Weight Loss mg/ cm ² /week					
ASTM D 3306 (max)	1.0					
Maxol Antifreeze	<0.1					
ASTM D2570 Simulated Service Corrosion Test						
	Weight Loss mg/ Coupon					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminium
ASTM D2570 (max)	20	60	20	20	20	60
Maxol Antifreeze	2.0	10.2	2.2	4.3	3.8	4.7
ASTM D2809 Cavitation Corrosion Characteristics of Aluminium Pumps						
	Visual Rating					
ASTM D 2809 (min)	8					
Maxol Antifreeze	10					

Freeze Protection

	Concentration by Volume %				
	25	33	40	50	60
Specific Gravity 20/4°C	1.040	1.057	1.068	1.086	1.100
Freeze Protection * °C	-12	-22	-27	-40	-56

*Average of Freezing Point and Pour Point

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Technical Data

Performance Standards:

Maxol Antifreeze exceeds the requirements of most European and International Standards including: ASTM D3306, SAE J 1034, BS 6580 (2010), AFNOR NF R15-601

Storage and Handling:

Maxol Antifreeze has a shelf life of two years when stored in air tight containers at a maximum temperature of 30°C. It is recommended that the product is used within two years from the date of manufacture. In warm climates containers should not be stored outside in direct sunlight. Maxol Antifreeze can be stored in mild steel, lacquer lined or HDPE containers. Galvanised containers and handling equipment should be avoided. Hazard data for Maxol Antifreeze is provided in the products Material Safety Data Sheet, the usual precautions for handling chemicals should be taken when handling Maxol Antifreeze.

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