

## Shelf Life

- 5 years from date of manufacture when tightly sealed within the original packaging, at a maximum storage temperature of 30°C.
- All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be exposed to hot sun or freezing conditions.
- Manufacture date can be identified from an eight digit code printed on the bottle. YYYY.MM.DD.

## Colour

Mobil Antifreeze Ultra is Clear Violet Liquid.

## Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

## Note

The data contained in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, this data does not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

# Mobil™ Antifreeze Ultra

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Manufactured by Moove Lubricants Ltd.  
Operations Plant Dering Way, Gravesend, Kent DA12 2QX +44 (0) 1474 564 311

[www.mobil-ancillaries.com](http://www.mobil-ancillaries.com)



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# Mobil™ Antifreeze Ultra

## Data Sheets



## Mobil Antifreeze Ultra - Concentrate

Mobil Antifreeze Ultra is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use.

Mobil Antifreeze Ultra contains a corrosion inhibitor package based on salts of organic additive technology and silicates (Si-OAT coolant).

Mobil Antifreeze Ultra is free of nitrites, amines, phosphates and borates.

## Properties

Mobil Antifreeze Ultra protects engines corrosion, overheating and frost. It effectively protects engines against corrosion and deposits in the cooling system with its vital parts, the coolant channels in engine block and cylinder head, the radiator, the water pump and the heater core.

Mobil Antifreeze Ultra contains Glysantin® G40® by BASF and fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 4985, SAE J1034, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, China GB 29743-2013 and BS 6580:2010



Mobil Antifreeze Ultra contains Glysantin® G40® by BASF and is officially approved by the following OEMs:

- |   |          |   |
|---|----------|---|
| ▪ VW / Audi / Seat / Skoda /<br>Lamborghini / Bentley / Bugatti ( built as from 2005) | TL 774-G | ▪ MAN (built as from 12/2011) MAN 324 Type Si-OAT |
| ▪ Smart (built as from 2014)  |          | ▪ Cummins CES 14603                               |
| ▪ Porsche (vehicles as from 2010) 911,<br>Boxster, Cayman, Cayenne, Panamera          |          | ▪ Deutz DQC CC-14                                 |
| ▪ Mercedes Cars (built as from 2014) MB-Approval 325.6                                |          | ▪ MTU MTL 5048                                    |
| ▪ Mercedes Trucks ( built as from 10/2011) MB-Approval 325.5                          |          | ▪ Liebherr Minimum                                |
|   |          | LH-01-COL3A                                       |

## Miscibility

Since the special advantages of Mobil Antifreeze Ultra will only be achieved when it is used exclusively, mixing Mobil Antifreeze Ultra with other Glysantin coolants or products of other producers is not recommended.

Mobil Antifreeze Ultra should be blended with water in a concentration amongst 33% to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and Glysantin is generally advisable.

For preparation of the coolant it is recommended to use distilled or deionized water. In most cases tap water is also appropriate.

Analysis values of the water may not exceed the following threshold values:

Water hardness:	0 – 3.6 mmol/l
Chloride content:	max. 100 ppm
Sulfate content:	max. 100 ppm

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# Mobil™ Antifreeze Ultra

## Chemical nature

Ethylene glycol with corrosion inhibitors

## Appearance

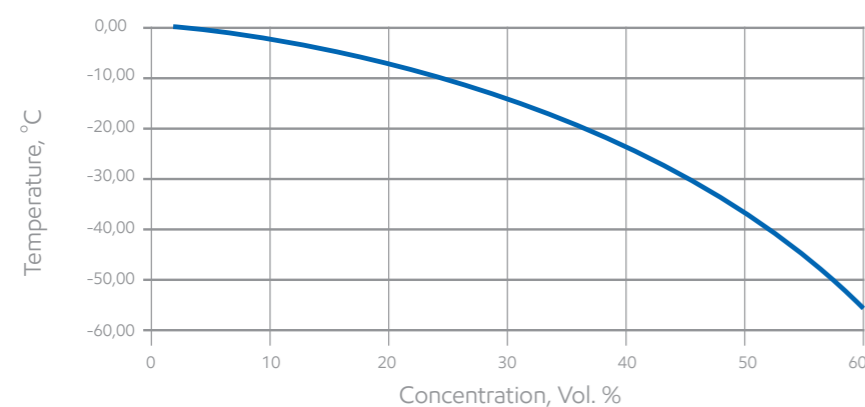
Clear liquid without solid contaminants

## Physical data

Density at 20 °C	1.123 – 1.126 g/cm <sup>3</sup>	DIN 51 757-4
Boiling point	min 160 °C	ASTM D 112
Flash point	min 120 °C	DIN ISO 2592
pH value	8.2 – 8.6	ASTM D 1287
Reserve alkalinity	8.0 – 11.0 ml	ASTM D 1121
Water content	max 3.0 %	DIN 51 777-1

## Frost Protection

Freezing point		ASTM D 1177
50 vol % solution	below -37 °C	
33 vol % solution	below -18 °C	



## Foaming Characteristics

33 vol% solution	max 20 ml / 5 ml	VW TL 774-G
33 vol% solution	max 50 ml / 3 s	ASTM D 1881

## Glassware Corrosion Test

VW TL 774-G

Metal coupons	typical weight loss g/m <sup>2</sup>	VW TL 774-G limit g/m <sup>2</sup>
Copper	0.1	3 max
Solder	0.1	3 max
Brass	-0.4	3 max
Steel	-0.1	3 max
Cast iron	-0.1	3 max
GAlSi6Cu4	-0.5	2 max
AlSi12	-0.9	2 max
AlMn	-0.4	2 max
GAlSi10Mg	-0.7	2 max

## Chip/filter paper method

DIN 51 360-2

Concentration	typical rating	VW TL 774-G limit rating
20 vol% solution	4	4 max
40 vol% solution	2	2 max

## Quality Control

The above data represent average values at the time of going to press of this technical information. They cannot be regarded as specified data. Specified product data is issued as a separate product specification.

## Packaging

Mobil Antifreeze Ultra is available in 1L, 5L, 20L, 208L and 1000L.

## Handling

- Minor spills should be soaked up with oil absorbent granules, sand or dirt. The spillage site should then be washed with soapy water and dried.
- Wash off any spillage on paintwork immediately.
- Avoid contact with galvanised equipment when storing or dispensing this product, as this will prompt a corrosive reaction.