



G40[®] Data Sheet

D/EVO 120 e October 2013
Supersedes edition of February 2013

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Glysantin[®] G40[®] is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use.

Glysantin G40 contains a corrosion inhibitor package based on salts of organic acids and silicates (Si-OAT coolant).

Glysantin G40 is free of nitrites, amines, phosphates and borates.

Properties

Glysantin G40 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.

Glysantin G40 fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 4985, ASTM D 6210, SAE J1034, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, SH 0521-1999 and BS 6580:2010

Glysantin G40 is officially approved by the following OEMs:

- VW / Audi / Seat / Skoda TL 774-G
Lamborghini / Bentley / Bugatti
- Porsche from MY 1996
- Daimler / Mercedes-Benz Specification 325.5
- MAN MAN 324 Type Si-OAT
- Cummins CES 14603

Miscibility

Since the special advantages of Glysantin G40 will only be achieved when Glysantin G40 is used exclusively, mixing Glysantin G40 with other Glysantin coolants or products of other producers is not recommended.

Glysantin G40 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.



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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

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 ³	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	

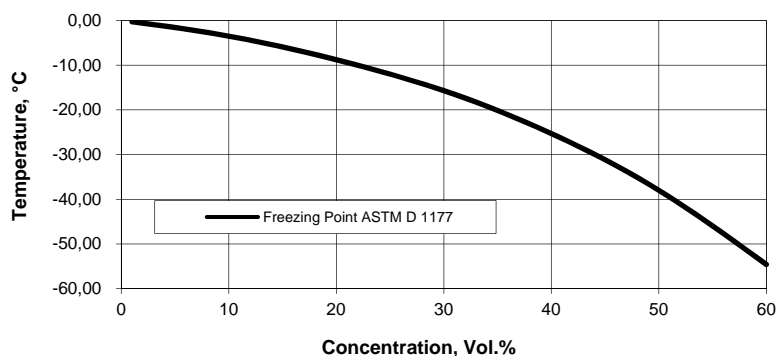


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Frost Protection of Glysantin[®] G40[®]



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 ²	VW TL 774-G limit g/m ²
	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
	GAISI6Cu4	-0.5	2 max
	AlSi12	-0.9	2 max
	AlMn	-0.4	2 max
GAISI10Mg	-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	



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Quality Control

The above-listed data represent average values at the time of going to press of this Data Sheet. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Storage Stability

Glysantin G40 has a shelf life of at least three years when stored in originally closed, air-tight containers at temperatures of maximum 30 °C. Do not use galvanized containers for storage.

Color

Glysantin G40 is usually available in red-violet.

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 are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do 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.

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www.glysantin.de

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67056 Ludwigshafen, Deutschland
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