



G30[®] Data Sheet

TI/ES 1425 d February 2013
Supersedes edition of September 2005

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Glysantin[®] G30[®] is engine coolant based on ethylene-glycol that needs to be diluted with water before use.

Glysantin G30 contains a corrosion inhibitor package based on organic acid salts (OAT coolant). Glysantin G30 is free of nitrites, amines, phosphates, silicates and borates.

Properties

Glysantin G30 protects engines against corrosion, overheating and frost. It effectively protects engines against corrosion and deposits in the cooling system with its vital parts, the coolant channels in the block and cylinder head, the radiator, the water pump and the heater core.

Glysantin G30 fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 4985, BS 6580:2010, CUNA NC 956-16, AFNOR NFR 15-601, ÖNORM V 5123, SAE J1034, SANS 1251:2005 and SH 0521-1999.

Glysantin G30 is officially approved according to the following OEM standards:

- | | |
|-------------------------|-------------------------|
| • MAN | MAN 324 Type SNF |
| • Daimler/Mercedes-Benz | Specification 325.3 |
| • MTU | MTL 5048 |
| • Porsche | from MY 1996 to MY 2010 |
| • VW/Audi/Seat/Skoda | TL 774-D/F |
| • DAF | MAT 74002 |

Miscibility

Since the special advantages of Glysantin G30 will only be achieved when Glysantin G30 is used exclusively, mixing Glysantin G30 with other Glysantin coolants or products of other producers is not recommended.

Glysantin G30 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, 20 °C	1.122 – 1.125 g/cm ³	DIN 51 757-4
Viscosity, 20 °C	22 – 26 mm ² /s	DIN 51 562
Refractive index, 20 °C	1.432 – 1.436	DIN 51 423
Boiling point	> 160 °C	ASTM D 1120
Flash point	> 120 °C	DIN ISO 2592
pH value	8.2 – 8.6	ASTM D 1287
Reserve alkalinity	8 – 11 ml	ASTM D 1121
Water content	max. 3 %	DIN 51 777-1

Stability

Inhibitor stability after 168 h	no flocculation	VW TL 774 D/F
Hard water stability after 10 days	no flocculation	VW PV 1426

Frost protection

Freezing point		ASTM D 1177
50 vol % solution	below -38 °C	
33 vol % solution	below -18 °C	

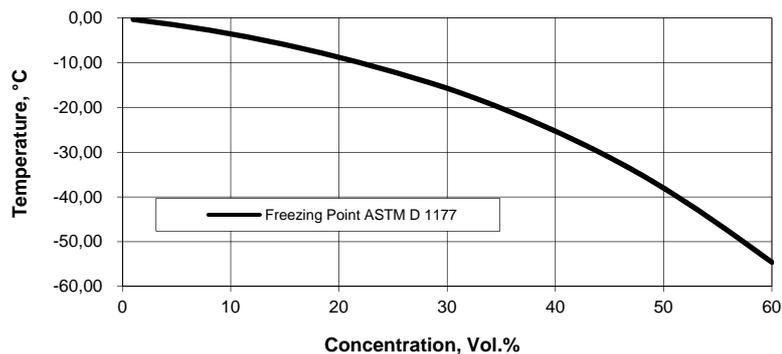


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Frost Protection of Glysantin[®] G30[®]



Foaming characteristics	33 vol % solution	max. 20 ml / max. 5 ml	VW TL 774-D/F
	33 vol % solution	max 50 ml / 3 s	ASTM D 1181
Electrical conductivity	30-50 vol % solution	approx. 4 mS/cm, at 23 °C	ASTM D 1125
	Glassware Corrosion Test	ASTM D 1384	
	Metal coupons	typical weight loss mg/coupon	ASTM D 3306 limit mg/coupon
	Copper	-0.8 *)	10 max
	Solder	-1.2 *)	30 max
	Brass	-0.9 *)	10 max
	Steel	0.1	10 max
	Cast iron	1.3	10 max
	Cast aluminum	-4.0 *)	30 max

*) remark: negative values mean a weight gain



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Simulated Service-Test

ASTM D 2570

Metal coupons	typical weight loss mg/coupon	ASTM D 3306 limit mg/coupon
Copper	-2.8 *)	20 max
Solder	-1.7 *)	60 max
Brass	-1.4 *)	20 max
Steel	-0.3 *)	20 max
Cast iron	3.0	20 max
Cast aluminum	-3.3 *)	60 max

*) remark: negative values mean a weight gain

Cavitation Erosion Corrosion Test

ASTM D 2809

	Rating	ASTM D 3306 limit Rating
Aluminum water pump	9	8 min

Heat Transfer Corrosion Test

ASTM D 4340

	typical corrosion rate mg/cm ² /week	ASTM D 3306 limit mg/cm ² /week
G AISi6Cu4	0.3	1.0 max

Polarization Resistance

NF R 15-602-9

		limit NF R 15-601
Aluminum:	$1.2 \cdot 10^6 \Omega \cdot \text{cm}^2$	$> 10^6 \Omega \cdot \text{cm}^2$

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 are issued as a separate product specification.



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Storage Stability

Glysantin G30 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 G30 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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