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# GLYSANTIN® G30®

GLYSANTIN® G30® is an engine coolant concentrate 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.

Product properties are identical for the respective **ECO BMB 100** product.

GLYSANTIN® G30® fulfills the requirements of the following coolant standards:

- AS 2108-2004, ASTM D 3306, ASTM D 4985, ASTM D 6210, ASTM D 7583, BS 6580:2010, CUNA NC 956-16, AFNOR NFR 15-601, ÖNORM V 5123, JIS K 2234:2006, SAE J1034, SANS 1251:2005 and China GB 29743-2013.

Furthermore, GLYSANTIN® G30® is officially approved according to the following OEM standards:

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|----------------------------|-------------------------|
| • Audi / Seat / Skoda / VW | TL 774-D/F              |
| • Bentley / Lamborghini    | TL 774-F                |
| • DAF                      | MAT 74002               |
| • Daimler Truck and Buses  | MB-Approval 325.3       |
| • Deutz                    | DQC CB-14               |
| • Ferrari                  | From MY 2010            |
| • MAN                      | MAN 324 Type SNF        |
| • MINI Cooper D            | From MY 2007 to MY 2011 |
| • MTU                      | MTL 5048                |
| • Porsche                  | From MY 1996 to MY 2009 |

<b>Miscibility</b>	<p>Since the special advantages of <b>GLYSANTIN® G30®</b> will only be achieved when <b>GLYSANTIN® G30®</b> is used exclusively, mixing <b>GLYSANTIN® G30®</b> with other <b>GLYSANTIN®</b> coolants or engine coolants from other producers is not recommended.</p> <p><b>GLYSANTIN® G30®</b> should be blended with water in a concentration between 33 and 60% by volume prior to infilling. The use of a 50/50 ratio for the mixture of water and <b>GLYSANTIN®</b> is generally advisable. For preparation of the prediluted coolant, it is recommended to use distilled or deionized water. In most cases tap water is also appropriate.</p> <p>Analysis values of the water may not exceed the following threshold values:</p>		
	Water hardness:	0 – 3.6 mmol/L	
	Chloride content:	max. 100 ppm	
	Sulfate content:	max. 100 ppm	
<b>Chemical nature</b>	Ethylene glycol with corrosion inhibitors		
<b>Appearance</b>	Clear liquid without solid contaminants		
<b>Physical data</b>	Density at 20 °C	1.122 – 1.125 g/cm <sup>3</sup>	DIN 51 757
	Viscosity at 20 °C	22 – 26 mm <sup>2</sup> /s	DIN 51 562
	Boiling point	min 163 °C	ASTM D1120
	Flash point	min 120 °C	DIN ISO 2592
	pH value	8.2 – 8.6	ASTM D1287
	Reserve alkalinity	8.0 – 11.0 mL	ASTM D1121
	Water content	max 3.0 %	DIN 51 777
	Refractive index	1.432 - 1.436	DIN 51 423
	Ash content	max 2.5 %	ASTM D1119
<b>Frost protection</b>	Freezing point		ASTM D1177
	60 vol% solution	Below -50 °C	
	50 vol% solution	Below -37 °C	
	40 vol% solution	Below -24 °C	
	33 vol % solution	Below -18 °C	
	20 vol% solution	Below -8 °C	
	10 vol% solution	Below -3 °C	
<b>Foaming characteristics</b>	30 vol% solution	max. 20 mL / max. 5 mL	VW TL 774 D/F
	33 vol% solution	max 50 mL / 3 s	ASTM D1881
<b>Stability</b>	Inhibitor stability (after 168 h)	No precipitation	VW TL 774 D/F
	Inhibitor stability (after 10 d)	No precipitation	VW PV 1426

<b>Electrical conductivity</b>	30 – 50 vol % solution		
	At 23 °C	Approx. 4 mS/cm	ASTM D1125
<b>Glassware corrosion test</b>	ASTM D1384		
	Metal coupons	Typical weight loss (mg/coupon)	ASTM D3306 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
	Aluminum	-4.0	30 max
	<b>Simulated service corrosion test</b>	ASTM D2570	
Metal coupons		Typical weight loss (mg/coupon)	ASTM D3306 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
Aluminum		-3.3	60 max
<b>Heat transfer corrosion test</b>		ASTM D4340	
	Metal coupon	Typical weight change (mg/cm <sup>2</sup> /week)	ASTM D 3306 limit (mg/cm <sup>2</sup> /week)
	Cast aluminum	0.3	1.0 max
<b>Cavitation erosion corrosion test</b>	ASTM D2809		ASTM D3306
	Aluminum water pump rating	9	8 min
<b>Polarization resistance</b>	NF R 15-602-9		NF R 15-601
	Aluminum	$1.2 \times 10^6 \Omega \text{ cm}^2$	$> 10^6 \Omega \text{ cm}^2$
<b>Quality control</b>	The above-listed data represents average values at the time of going to press this data sheet. They are intended as a guideline to facilitate handling and cannot be regarded as specific data. Specified product data are issued as a separate product specification.		
<b>Storage stability</b>	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.		
<b>Color</b>	GLYSANTIN® G30® is usually available in pink.		

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**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.

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**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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**BASF SE**

Fuel and Lubricant Solutions  
67056 Ludwigshafen, Germany  
[www.glysantin.de](http://www.glysantin.de)

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