



A Brand of BASF – We create chemistry

# GLYSANTIN® G48® Ready Mix/40

GLYSANTIN® G48® Ready Mix/40 is a ready-to-use engine coolant based on ethylene glycol and water. GLYSANTIN® G48® Ready Mix/40 contains a hybrid corrosion inhibitor package based on salts of organic acids and silicates (Hybrid Coolant). GLYSANTIN® G48® Ready Mix/40 is free of nitrites, amines, and phosphates.

## Properties

GLYSANTIN® G48® Ready Mix/40 is ready for use. Further dilution with water is not recommended.

GLYSANTIN® G48® Ready Mix/40 is a 40:60 mixture of GLYSANTIN® G48® and water. For the preparation of the mixture demineralized water with low electrical conductivity is used, in order to maximize corrosion protection and to minimize hard water scale deposits in the cooling system.

GLYSANTIN® G48® Ready Mix/40 provides freezing protection down to -25°C.

GLYSANTIN® G48® Ready Mix/40 was developed to protect engines against corrosion, overheating and frost damage. It gives a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads, water pumps and heat exchangers, and avoids deposits.

GLYSANTIN® G48® Ready Mix/40 is especially recommended for use in gas engines.

GLYSANTIN® G48® Ready Mix/40 fulfills the requirements of the following coolant standards:

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

Furthermore, GLYSANTIN® G48® Ready Mix/40 is officially approved according to the following OEM standards:

- |  |                          |
|--|--------------------------|
| • BMW  | • BMW GS 94000           |
| • Bez. Reg. Arnsberg, Dept. of Mining and Energy | • 84.12.22.63-2001-2     |
| • Daimler/Mercedes-Benz                          | • MB-Approval 325.0      |
| • Deutz  | • DQC CA-14              |
| • Jenbacher                                      | • TA-Nr. 1000-0201       |
| • Liebherr                                       | • Minimum LH-00-COL3A    |
| • MAN  | • MAN 324-NF             |
| • MTU  | • MTL 5048               |
| • MWM  | • TR 2091/13 EN          |
| • Opel/General Motors                            | • B 040 0240             |
| • Porsche  | • for 924, 928, 944, 968 |
| • Saab   | • 6901599                |
| • VW/Audi/Seat/Skoda                             | • TL 774-C               |
| • Volvo Truck                                    | • Until MY 2005          |

<b>Miscibility</b>	<p>Since the special advantages of <b>GLYSANTIN® G48® Ready Mix/40</b> will only be achieved when <b>GLYSANTIN® G48® Ready Mix/40</b> is used exclusively.</p> <p>Mixing of <b>GLYSANTIN® G48® Ready Mix/40</b> with other engine coolants is not recommended.</p>		
<b>Chemical nature</b>	Ethylene glycol and water with corrosion inhibitors		
<b>Appearance</b>	Clear liquid without solid contaminants		
<b>Physical data</b>	Density at 20 °C	1.058 – 1.061 g/cm <sup>3</sup>	DIN 51 757
	Boiling point	min 105 °C	ASTM D1120
	Flash point	None up to 105 °C	DIN ISO 2592
	pH value	7.9 – 8.3	ASTM D1287
	Reserve alkalinity	min 5.2 mL	ASTM D1121
	Water content	56 – 61 %	DIN 51 777
	Refractive index	1.375 – 1.377	DIN 51 423
	Ash content	max 1.0 %	ASTM D1119
<b>Kinematic viscosity</b>	Typical data		DIN 51 562
	At 0 °C	6.2 mm <sup>2</sup> /s	
	At 20 °C	3.2 mm <sup>2</sup> /s	
	At 80 °C	0.8 mm <sup>2</sup> /s	
<b>Frost protection</b>	Freezing point		ASTM D1177
	40 vol% solution	Below -25 °C	
<b>Foaming characteristics</b>	33 vol % solution	max 50 mL / 3 s	ASTM D1881
<b>Electrical conductivity</b>	At 25 °C	4 mS/cm	ASTM D1125
<b>Glassware corrosion test</b>	ASTM D1384		
	<b>Metal coupons</b>	<b>Typical weight loss (mg/coupon)</b>	<b>ASTM D3306 limit (mg/coupon)</b>
	Copper	-0.1	10 max
	Solder	-0.3	30 max
	Brass	-0.2	10 max
	Steel	0.2	10 max
	Cast Iron	1.0	10 max
	Aluminum	1.1	30 max

<b>Simulated service corrosion test</b>	ASTM D2570		
	<b>Metal coupons</b>	<b>Typical weight loss (mg/coupon)</b>	<b>ASTM D3306 limit (mg/coupon)</b>
	Copper	- 8.8	20 max
	Solder	0.0	60 max
	Brass	- 10.7	20 max
	Steel	- 0.1	20 max
	Cast Iron	1.1	20 max
	Aluminum	1.2	60 max
<b>Heat transfer corrosion test</b>	ASTM D4340		ASTM D3306
	Cast aluminum	-0.07 mg / cm <sup>2</sup> / week	1.0 max
<b>Cavitation erosion corrosion test</b>	ASTM D2809		ASTM D3306
	Aluminum water pump rating	9	8 min
<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 guide 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® G48® Ready Mix/40 has a shelf life of at least 3 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® G48® Ready Mix/40 is available in blue-green.		
<b>Packaging</b>	GLYSANTIN® G48® Ready Mix/40 is available in 1000 L IBC containers		
<b>Safety</b>	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.		
<b>Note</b>	<p>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.</p> <p>It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.</p> <p>April 2024</p>		

---

## BASF SE

Fuel and Lubricant Solutions  
67056 Ludwigshafen, Germany  
www.glystantin.de

® = registered trademark of BASF SE | ™ = registered trademark of BASF SE