



G48® Ready Mix Data Sheet

D/EVO 110 e July 2016

Supersedes edition of June 2016

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Glysantin® G48® Ready Mix is a ready-to-use engine coolant based on ethylene glycol.

Glysantin G48 Ready Mix contains a hybrid corrosion inhibitor package based on salts of organic acids and silicates (Hybrid Coolant).

Glysantin G48 Ready Mix is free of nitrites, amines and phosphates.

Properties

Glysantin G48 Ready Mix is ready for use. Further dilution with water is not recommended.

Glysantin G48 Ready Mix is a 50:50 mixture of Glysantin G 48 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 provides frost protection down to -38 °C.

Glysantin G48 Ready Mix 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 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® is officially approved by:

- BMW BMW GS 94000
- Bez. Reg. Arnberg, 84.12.22.63-2001-2
Dept. of Mining and Energy
- German Army TL 6850-0038/1
- Daimler/Mercedes-Benz MB-Approval 326.0
(for G48 Ready Mix)
- Deutz DQC CA-14
- Jenbacher TA-Nr. 1000-0201
- Liebherr Minimum LH-00-COL3A



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- MAN MAN 324-NF
- MTU MTL 5048
- Opel/General Motors B 040 0240
- Porsche for 924, 928, 944, 968
- Saab 6901599
- VW/Audi/Seat/Skoda TL 774-C

Miscibility

Since the special advantages of Glysantin G48 Ready Mix will only be achieved when Glysantin G48 Ready Mix is used exclusively, mixing Glysantin G48 Ready Mix with other Glysantin coolants or products from other producers is not recommended.

Chemical nature

Ethylene glycol and water with corrosion inhibitors

Appearance

Clear liquid

Physical data

Density, 20 °C	1.072 – 1.074 g/cm ³	DIN 51 757-3
Refractive index, 20 °C	1.385 – 1.387	DIN 51 423-2
Boiling point	min. 105 °C	ASTM D 1120
pH value	7.9 – 8.3	ASTM D 1287
Reserve alkalinity	6 – 8 ml	ASTM D 1121
Ash content	max. 1.0 %	ASTM D 1119
Water content	47 – 51 %	DIN 51 777-1
Kinematic viscosity		DIN 51 562
at 0 °C	ca. 8.8 mm ² /s	
at 20 °C	ca. 4.1 mm ² /s	
at 80 °C	ca. 1.0 mm ² /s	

Frost protection

Freezing point below -38 °C ASTM D 1177



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Foaming characteristics	Foam volume / break time	max. 50 ml / 3 s	ASTM D 1881
Electrical conductivity	at 23 °C	approx. 4 mS/cm	ASTM D 1125

Corrosion Test Data for Glysantin® G48®

Glassware Corrosion Test

ASTM D 1384

Metal coupons	typical weight change mg/coupon	ASTM D 3306 limit mg/coupon
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
Cast aluminum	1.1	30 max

Heat Transfer Corrosion Test

ASTM D 4340

	typical corrosion rate mg/cm ² /week	ASTM D 3306 limit mg/cm ² /week
Cast aluminum	-0.07 *)	1.0 max

Simulated Service Corrosion Test

ASTM D 2570

Metal coupons	typical weight change mg/coupon	ASTM D 3306 limit mg/coupon
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
Cast aluminum	1.2	60 max



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Cavitation Erosion Corrosion Test

ASTM D 2809

Aluminum water pump

9

8 min

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.

Packaging

Glysantin G48 Ready Mix is available in 230 kg drums and 1.5 L cans.

Storage Stability

Glysantin G48 Ready Mix 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 G48 Ready Mix is available in blue-green.



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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

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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