



G40® Ready Mix Data Sheet

D/EVO 3078 e September 2016
Supersedes edition of July 2016

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Glysantin® G40® Ready Mix is an engine coolant based on ethylene glycol and water.

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

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

Properties

Glysantin® G40® Ready Mix is ready for use. Further dilution with water is not recommended

Glysantin® G40® Ready Mix is a 50:50 mixture of Glysantin® G40® and water. For the preparation of the mixture demineralized water with low conductivity is used, in order to maximize corrosion protection and to minimize hard water scale deposits in the cooling system.

Glysantin® G40® Ready Mix provides frost protection down to -37°C.

Glysantin® G40® Ready Mix protects engines from 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® G40® fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D3306, ASTM D4985, SAE J1034,
ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006,
SANS 1251:2005, China GB 29743-2013 and BS 6580:2010.

Glysantin® G40® is officially approved by

- VW / Audi / Seat / Skoda / TL 774-G
Lamborghini / Bentley / Bugatti
- Porsche ab Baujahr 1996
- Daimler / Mercedes-Benz MB-Freigabe 325.5 und 325.6
- MAN MAN 324 Typ Si-OAT
- Cummins CES 14603
- MTU MTL 5048
- Liebherr Minimum LH-01-COL3A
- Deutz DQC CC-14
- IRIZAR, S. COOP from Sep. 2016



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Miscibility Since the special advantages of Glysantin® G40® Ready Mix will only be achieved when Glysantin® G40® Ready Mix is used exclusively. Mixing of Glysantin® G40® Ready Mix with other engine coolants is not recommended.

Chemical nature Ethylene glycol and water with corrosion inhibitors

Appearance Clear liquid without solid contaminants

| | | | |
|----------------------|--------------------|---------------------------------|--------------|
| Physical data | Density at 20 °C | 1.072 – 1.074 g/cm ³ | DIN 51 757-3 |
| | pH value | 7.8 – 8.6 | ASTM D 1287 |
| | Reserve alkalinity | 4.0 – 5.5 ml | ASTM D 1121 |
| | Water content | 47.0 – 51.0 % | DIN 51 777- |

| | | | |
|------------------|------------------------------------|-------------------|-------------|
| Stability | Inhibitor stability after 168 h | no precipitation | VW TL 774-G |
| | Hard water stability after 10 days | no precipitation- | VW PV 1426 |

| | | | |
|-------------------------|----------------|--------------|-------------|
| Frost protection | Freezing point | below -37 °C | ASTM D 1177 |
|-------------------------|----------------|--------------|-------------|

| | | | |
|--------------------------------|------------------|-----------------|-------------|
| Foaming characteristics | 33 vol% solution | max. 50 ml / 3s | ASTM D 1881 |
| | 33 vol% solution | max. 20 ml / 5s | VW TL 774-G |



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Corrosion Test data for Glysantin[®] G40[®]

| Glassware Corrosion Test | ASTM D 1384 | | |
|--------------------------|---------------|------------------------------------|----------------------------------|
| | Metal coupons | Typical weight loss mg / coupon | ASTM D 3306 limit mg / coupon |
| | Copper | 1 | 10 max |
| | Solder | 0 | 30 max |
| | Brass | 1 | 10 max |
| | Steel | 1 | 10 max |
| | Cast Iron | 4 | 10 max |
| | Cast aluminum | -2 *) | 30 max |

| 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 |

| Heat Transfer Corrosion Test | ASTM D 4340 | | |
|------------------------------|-------------|----------------|-----------------------------------|
| | | Cast aluminum: | - 0.1 mg / cm ² / week |

| Cavitation Erosion Corrosion Test | ASTM D 2809 | | |
|-----------------------------------|-------------|-------------------|----|
| | | Water pump rating | 10 |

*) negative values mean mass increase.



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Quality Control

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.

Storage Stability

Glysantin® G40® Ready Mix 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.

Color

Glysantin® G40® Ready Mix is 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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