



G30® Ready Mix Data Sheet

D/EVO 3070 e January 2017
Supersedes edition of June 2016

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GLYSANTIN® G30® Ready Mix is a ready-to-use engine coolant based on ethylene glycol and water.

GLYSANTIN® G30® Ready Mix contains a corrosion inhibitor package based on salts of organic acids (OAT Coolant). GLYSANTIN® G30® Ready Mix is free of nitrites, amines, phosphates, silicates and borates.

Properties

GLYSANTIN® G30® Ready Mix is ready for use. Further dilution with water is not recommended.

GLYSANTIN® G30® Ready Mix is a 50:50 mixture of GLYSANTIN® G30® 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® G30® Ready Mix provides frost protection down to -38 °C.

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

AS 2108-2004, ASTM D 3306, ASTM D 4985, BS 6580:2010, CUNA NC 956-1, AFNOR NFR 15-601, ÖNORM V 5123, 6, JIS K 2234:2006, SAE J1034, SANS 1251:2005 and China GB 29743-2013.

GLYSANTIN® G30® is officially approved by the following OEMs:

- | | |
|----------------------------|-------------------------|
| • Audi / Seat / Skoda / VW | TL 774-D/F |
| • Bentley / Lamborghini | TL 774-F |
| • DAF | MAT 74002 |
| • Daimler / Mercedes-Benz | 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 |



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- MTU MTL 5048
- Porsche from MY 1996 to MY 2009

Miscibility

Since the special advantages of GLYSANTIN[®] G30[®] Ready Mix will only be achieved when GLYSANTIN[®] G30[®] Ready Mix is used exclusively, mixing GLYSANTIN[®] G30[®] Ready Mix with other Glysantin coolants or engine coolants 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 – 1.075 g/cm ³	DIN 51 757-3
Refractive index, 20 °C	1.385 – 1.388	DIN 51 423-2
Boiling point	min. 105 °C	ASTM D 1120
pH value	7.8 – 8.5	ASTM D 1287
Reserve alkalinity	4.0 – 5.5 ml	ASTM D 1121
Ash content	max. 1.0 %	ASTM D 1119
Water content	47.0 – 51.0 %	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

Foaming characteristics

Foam volume / break time max. 50 ml / 3 s ASTM D 1881



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Electrical conductivity at 23 °C approx. 4 mS/cm ASTM D 1125

Glassware Corrosion Test **Corrosion Test Data for GLYSANTIN[®] G30[®]**

ASTM D 1384

Metal coupons	typical weight change 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

Heat Transfer Corrosion Test ASTM D 4340

	typical corrosion rate mg/cm ² /week	ASTM D 3306 limit mg/cm ² /week
Cast aluminum	0.3	1.0 max

Simulated Service Corrosion Test ASTM D 2570

Metal coupons	typical weight change 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



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Cavitation Erosion Corrosion Test

ASTM D 2809

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

Polarization Resistance

NF R 15-602-9

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

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[®] G30[®] Ready Mix is available in 1000 L IBC, 210 L drums and 1.5 L cans.

Storage Stability

GLYSANTIN[®] G30[®] 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[®] G30[®] Ready Mix is 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.

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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