



Classic Data Sheet

D/EVO 138 e August 2014

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Glysantin® Classic is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use.

Glysantin Classic contains a corrosion inhibitor package with nitrites, borates and silicates. Glysantin Classic is free of amines and phosphates.

Properties

Glysantin Classic protects engines against corrosion, overheating and frost. It gives a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads and water pumps.

Glysantin Classic fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 6210, BS 6580:2010, CUNA NC 956-16, AFNOR NFR 15-601, ÖNORM V 5123, SAE J1034, SANS 1251:2005 and SH 0521-1999.

Glysantin® Classic is especially suitable for cast iron engines and protects cars of an older generation.

Miscibility

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

Glysantin Classic should be blended with water in a concentration amongst 33 to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and Glysantin is generally advisable. For preparation of the coolant it is recommended to use distilled or deionized water. In most cases tap water is also appropriate.

Analysis values of the water may not exceed the following threshold values:

Water hardness:	0 – 3.6 mmol/l
Chloride content:	max. 100 ppm
Sulfate content:	max. 100 ppm

Chemical nature

Ethylene glycol with corrosion inhibitors



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Appearance

Clear liquid without solid contaminants

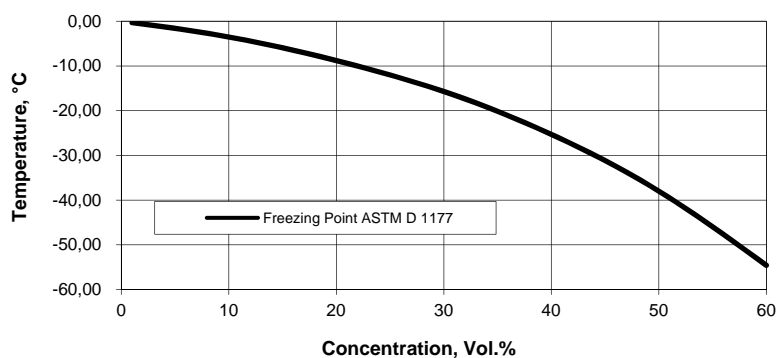
Physical data

Density, 20 °C	1.131 – 1.133 g/cm ³	DIN 51 757-4
Refractive index, 20 °C	1.435 – 1.438	DIN 51 423-2
Boiling point	> 160 °C	ASTM D 1120
Flash point	> 120 °C	DIN EN ISO 2592
pH value	6.0 – 7.0	ASTM D 1287
Reserve alkalinity	15 – 19 ml	ASTM D 1121
Ash content	max. 2.0 %	ASTM D 1119
Water content	max. 3.0 %	DIN 51 777-1

Frost protection

Freezing point		ASTM D 1177
50 vol % solution	below -38 °C	
33 vol % solution	below -18 °C	

Frost Protection of Glysantin® Classic



Foaming characteristics

33 vol % solution	max. 50 ml / 3 s	ASTM D 1881
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Glassware Corrosion Test

ASTM D 1384

Metal coupons	typical weight loss mg/coupon	ASTM D 3306 limit mg/coupon
Copper	0.0	10 max
Solder	-0.3 *)	30 max
Brass	0.6	10 max
Steel	-0.3 *)	10 max
Cast iron	0.6	10 max
Cast aluminum	-2.4 *)	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	-0.09 *)	1.0 max

Simulated Service Corrosion Test

ASTM D 2570

Metal coupons	typical weight loss mg/coupon	ASTM D 3306 limit mg/coupon
Copper	2.1	20 max
Solder	1.9	60 max
Brass	1.2	20 max
Steel	-1.0 *)	20 max
Cast iron	-1.1 *)	20 max
Cast aluminum	1.8	60 max

Cavitation Erosion Corrosion Test

ASTM D 2809

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

*) remark: negative values mean a weight gain

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



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handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Storage Stability

Glysantin Classic 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 Classic is usually available in yellow. Different colors may be seen in special cases.

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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