



G64® Data Sheet

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GLYSANTIN® G64® is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use.

GLYSANTIN® G64® contains a corrosion inhibitor package based on salts of organic acids, phosphate and silicate (PSi-OAT coolant).
GLYSANTIN® G64® is free from nitrites, amines and borates.

Properties

GLYSANTIN® G64® protects engines from corrosion, overheating and frost. It effectively protects engines against corrosion.

GLYSANTIN® G64® protects engines with an elevated temperature profile from the formation of deposits from flux and corrosion in the cooling system with its vital ducts in engine block and cylinder head, the radiator, the heater core and the water pump.

GLYSANTIN® G64® protects heavy duty diesel engines from pitting of wet cylinder liners. It fulfills the ASTM D6210 standard by providing an excellent performance in ASTM D7583 John Deere coolant cavitation test.

GLYSANTIN® G64® fulfills the requirements of the following coolant standards:

ASTM D3306, ASTM D4985, ASTM D6210, ASTM D7583, SAE J1034, ÖNORM V 5123, CUNA NC 956-16, PN-C40007:2000, AS 2108-2004, JIS K 2234:2006, SANS 1251:2005, GB 29743-2013 and BS 6580:2010.

GLYSANTIN® G64® is officially approved by

- Volvo Cars TR-31854114-002
- SDF (SAME DEUTZ-FAHR) for all models
- DEUTZ DQC CC-14
- MAN Diesel & Turbo for High Speed MAN175D



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Miscibility

Since the special advantages of GLYSANTIN® G64® will only be achieved when GLYSANTIN® G64® is used exclusively, mixing of GLYSANTIN® G64® with other engine coolants is not recommended.

GLYSANTIN® G64® should be blended with water in a concentration of 33 to 60% by volume prior to use. The usage of a 50/50 ratio for the mixture of water and GLYSANTIN® G64® is generally recommended.

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 shall 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

Appearance

Clear liquid without solid contaminants

Physical data

Density at 20 °C	1.124 – 1.128 g/cm ³	DIN 51 757-3
Refractive index, 20 °C	1.431 – 1.434	DIN 51 423-2
Boiling point	min 163 °C	ASTM D1120
Flash point	min 120 °C	DIN ISO 2592
pH value, undiluted	8.4 – 8.9	ASTM D1287
pH value, 50 vol%	7.5 – 8.5	ASTM D1287
Reserve alkalinity	8.0 – 10.0 ml	ASTM D1121
Water content	max 5.0 %	DIN 51 777-1



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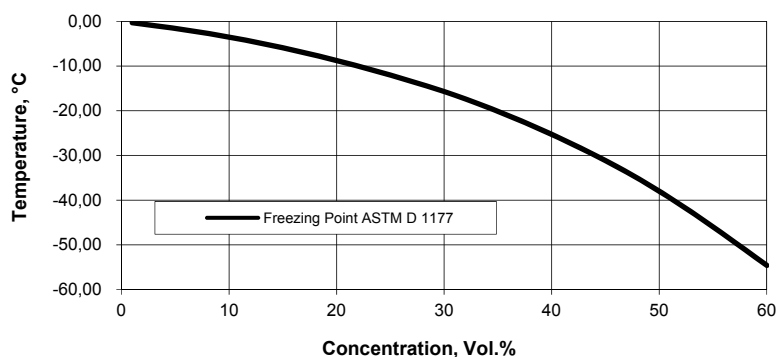
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Frost protection

Freezing point	ASTM D1177
50 vol% solution	below -37 °C
33 vol% solution	below -18 °C

Frost Protection of GLYSANTIN[®] G64[®]



Corrosion Test data

Glassware Corrosion Test

ASTM D1384

Metal specimen	Typical weight change mg	ASTM D3306 limit mg
Copper	0	10 max
Solder	0	30 max
Brass	-1	10 max
Steel	0	10 max
Cast iron	1	10 max
Cast aluminum	1	30 max



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Simulated Service Corrosion Test	ASTM D2570		
	Metal specimen	Typical weight change mg	ASTM D3306 limit mg
	Copper	-1	20 max
	Solder	-11	60 max
	Brass	-2	20 max
	Steel	-1	20 max
	Cast iron	0	20 max
	Cast aluminum	1	60 max
Cavitation Erosion Corrosion Test	ASTM D2809		
	Pump rating	10	8 min
Heat Transfer Corrosion Test	ASTM D4340		
	Corrosion rate	-0.06 mg/cm ² /week	1.0 max
Coolant Cavitation Test	ASTM D7583		
	Pit counts	103	200 max
Stability	Inhibitor-Stability after 168 h	clear, no-precipitation	VW TL 774-G
	Hard water stability after 10 days	clear, no-precipitation	VW PV 1426
Foaming characteristics	33 vol% solution	max 50 ml / 3 s	ASTM D1881



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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.

Storage Stability

GLYSANTIN® G64® 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 store in direct sunlight. Do not use galvanized containers for storage.

Color

GLYSANTIN® G64® is usually available in 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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www.glysantin.de

BASF SE

Fuel and Lubricant Solutions

67056 Ludwigshafen, Deutschland

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