



A Brand of BASF – We create chemistry

GLYSANTIN® G05®

GLYSANTIN® G05® is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use. GLYSANTIN® G05® contains a corrosion inhibitor package with nitrites, borates, and silicates. GLYSANTIN® G05® is free of amines and phosphates.

Properties

GLYSANTIN® G05® 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. Due to its nitrite content this product is especially recommended for use in heavy-duty engines.

GLYSANTIN® G05® and GLYSANTIN® NA05® are chemically identical; GLYSANTIN® NA05® is the product name for the North American market.

GLYSANTIN® G05®fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D3306, ASTM D6210, BS 6580:2010, CUNA NC 956-16, AFNOR NFR 15-601, ÖNORM V 5123, SAE J1034, SANS 1251:2005 and China GB 29743-2013.

Additionally, a 50 vol% aqueous solution of **GLYSANTIN® G05®** -23 (green) complies with the NATO S-750 specification (A-A-52624A).

Furthermore, GLYSANTIN® G05® is officially approved according to the following OEM standards:

•	Chrysler	MS-9769
•	Deutz-Fahr	
•	Dodge	MS-9769
•	Ford (North America)	WSS-M97B51-A1
•	Huerlimann	
•	JCB	STD 00088
•	Jeep	MS-9769
•	John-Deere	JDM H24
•	Lamborghini-Tractors	
•	MTU	MTL 5048

Same

Miscibility	Since the special advantages of GLYSANTIN® G05® will only be achieved when GLYSANTIN® G05® is used exclusively, mixing GLYSANTIN® G05® with other GLYSANTIN® Coolants or products from other producers is not recommended.				
	GLYSANTIN® G05® should be blended with water in a concentration between 33 and 60% by volume prior to infilling. The use of a 50/50 ratio for the mixture of water and GLYSANTIN® is generally advisable. For preparation of the prediluted 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				
	Sulfate content:		max. 100 ppm max. 100 ppm		
Chemical nature	Ethylene glycol with corrosion inhibitors				
Appearance	Clear liquid without solid contaminants				
Physical data	Density at 20 °C	1.131 – 1.133 g/cm ³	DIN 51 757		
	Viscosity at 20 °C	24 – 28 mm²/s	DIN 51 562		
	Boiling point	min 163 °C	ASTM D1120		
	Flash point	min 120 °C	DIN ISO 2592		
	pH value	6.0 – 7.0	ASTM D1287		
	Reserve alkalinity	15.0 – 19.0 mL	ASTM D1121		
	Water content	max 3.0 %			
	vvater content	111ax 3.0 /0	DIN 51 777		
	Refractive index	1.435 – 1.438	DIN 51 777 DIN 51 423		
Frost protection	Refractive index	1.435 – 1.438	DIN 51 423		
Frost protection	Refractive index Ash content	1.435 – 1.438	DIN 51 423 ASTM D1119		
Frost protection	Ash content Freezing point	1.435 – 1.438 max 2.0 %	DIN 51 423 ASTM D1119		
Frost protection	Ash content Freezing point 60 vol% solution	1.435 – 1.438 max 2.0 % Below -50 °C	DIN 51 423 ASTM D1119		
Frost protection	Ash content Freezing point 60 vol% solution 50 vol% solution	1.435 – 1.438 max 2.0 % Below -50 °C Below -37 °C	DIN 51 423 ASTM D1119		

Below -3 °C

10 vol% solution

Foaming characteristics	33 vol% solution	max 50 mL / 3 s	ASTM D1881	
Glassware corrosion test	ASTM D1384			
	Metal coupons	Typical weight loss (mg/coupon)	ASTM D3306 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	
	Aluminum	-2.4	30 max	
mulated service	ASTM D2570	570		
311031011 11231	Metal coupons	Typical weight loss (mg/coupon)	ASTM D3306 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	
	Aluminum	1.8	60 max	
eat transfer corrosion	ASTM D4340		ASTM D3306	
est	Metal coupon	Typical weight change (mg/cm²/week)	ASTM D 3306 limit (mg/cm²/week)	
	Cast aluminum	-0.09	1.0 max	
avitation erosion	ASTM D2809		ASTM D3306	
orrosion test	Aluminum water pump rating	9	8 min	

Quality control	The above-listed data represents average values at the time of going to press this data sheet. They are intended as a guideline to facilitate handling and cannot be regarded as specific data. Specified product data are issued as a separate product specification.
Storage stability	GLYSANTIN® G05®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® G05® 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.
	February 2024

BASF SE

Fuel and Lubricant Solutions 67056 Ludwigshafen, Germany www.glysantin.de

 $^{^{\}circ}$ = registered trademark of BASF SE \mid $^{\text{TM}}$ = registered trademark of BASF SE