

GLYSANTIN® G22® Ready Mix ELECTRIFIED®

GLYSANTIN® G22® Ready Mix ELECTRIFIED® is a low conductivity ready-to-use coolant for electric vehicles based on ethylene glycol that requires no further dilution before use. GLYSANTIN® G22® Ready Mix ELECTRIFIED® contains a corrosion inhibitor package based on organic salts (OAT), and silicate. GLYSANTIN® G22® Ready Mix ELECTRIFIED® is free of nitrites, phosphates, and borates.

Properties

GLYSANTIN® G22® Ready Mix ELECTRIFIED® protects the battery cooling system, electric engine and power electronics against corrosion, overheating, and frost. It effectively protects against corrosion and deposits in the battery cooling system with its vital parts, the cooling plate and channels, the heat sink, the chiller, the radiator, the water pump, and the heater core.

GLYSANTIN® G22® Ready Mix ELECTRIFIED® was designed to achieve effective prevention of corrosion in a broad temperature window while maintaining low electrical conductivity levels. It provides good passivation in the low-temperature coolant circuits (battery operation) but also at high temperatures (ICE, battery charging).

Miscibility

The special advantages of GLYSANTIN® G22® Ready Mix ELECTRIFIED® will only be achieved when it is used exclusively. Mixing with other GLYSANTIN® coolants or coolants from other producers is not recommended.

GLYSANTIN® G22® Ready Mix ELECTRIFIED® is a ready-to-use coolant and requires no further dilution. For optimal corrosion protection and stable low electrical conductivity levels, GLYSANTIN® G22® Ready Mix ELECTRIFIED® should be applied as-is.

In general, GLYSANTIN® G22® Ready Mix ELECTRIFIED® is miscible with water and polar organic solvents.

Appearance

Clear colorless to light yellow liquid

Physical data

Density, 20 °C	1.060 – 1.070 g/cm ³	DIN 51 757
Viscosity, 20 °C	3.8 mm ² /s	DIN 51 562
pH value	7.3 – 7.9	ASTM D1287
Reserve alkalinity	0.5 mL	ASTM D1121
Water content	48 – 52 %	DIN 51 777
Electrical conductivity, 20 °C	max. 50 µS/cm	ASTM D1125
Refractive index, 20 °C	1.384 – 1.385	DIN 51 423
Boiling point	108 °C	ASTM D1120
Flash point	None up to 108 °C	DIN EN ISO 2592
Ash content	max 2.5 %	ASTM D1119
Freezing point	max. -37 °C	ASTM D1177

Foaming characteristics

As-is	max 50 mL / 3 s	ASTM D1881
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Glassware corrosion test Modified ASTM D1384 (**GLYSANTIN® G22® Ready Mix ELECTRIFIED®** used as-is)

Metal coupons	Typical weight change (mg/coupon)	ASTM D 3306 limit (mg/coupon)
Copper	2.0	10 max
Solder	-1.7	30 max
Brass	1.4	10 max
Steel	0.3	10 max
Cast iron	4.3	10 max
Aluminum	3.7	30 max
Conductivity change	4 µS/cm	

Heat transfer corrosion test Modified ASTM D 4340 (**GLYSANTIN® G22® Ready Mix ELECTRIFIED®** used as-is)

Metal coupons	Typical weight change (mg/cm ² /week)	ASTM D 3306 limit (mg/cm ² /week)
Cast aluminum	-0.02	1.0 max
Conductivity change	23 µS/cm	

Quality control The above-listed data represent average values at the time of releasing this data sheet. They are intended as a guideline to facilitate handling of this product and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Storage stability **GLYSANTIN® G22® Ready Mix ELECTRIFIED®** has a shelf life of at least three years when stored in originally closed, airtight containers at temperatures of maximum 30 °C. After three years, the applicability should be tested by determining electrical conductivity and pH. Do not use galvanized containers for storage because they may corrode.

Color **GLYSANTIN® G22® Ready Mix ELECTRIFIED®** is usually available colorless.

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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