

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 is issued as a separate product specification.

Packaging

Mobil Coolant Advanced is available in 5L, 20L, 208L and 1000L.

Storage Stability

Mobil Coolant Advanced 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.

Colour

Mobil Coolant Advanced is available in Violet.

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 is based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, this data does 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.

Mobil™ Coolant Advanced

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Mobil™ Coolant Advanced

Data Sheets



Mobil Coolant Advanced Ready Mixed -36°C

Mobil Coolant Advanced is a ready-to-use engine coolant based on ethylene glycol and water.

Mobil Coolant Advanced contains a corrosion inhibitor package based on salts of organic additives (OAT Coolant). Mobil Coolant Advanced is free of nitrites, amines, phosphates, silicates and borates.

Properties

Mobil Coolant Advanced is ready for use. Further dilution with water is not recommended. Mobil Coolant Advanced 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.

Mobil Coolant Advanced provides frost protection down to -36°C. Mobil Coolant Advanced 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. Mobil Coolant Advanced fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 4985, BS 6580:2010, CLUNA 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.

Mobil Coolant Advanced is officially approved by the following OEMs:

- Audi/Bentley/Bugatti/Lamborghini/Seat/Skoda/VW (TL774-D/F)
- DAF (MAT74002)
- Deutz(DQC CB-14)
- Jaguar vehicles built from 1999 (VIN878389);
- MAN (MAN 324 SNF)
- Mercedes Benz (MB-Approval 326.3)
- Mini Cooper D from 2007-2010
- MTU (MTL 5048)
- Porsche vehicles built between 1996 and 2009;
- Siemens (wind power)

Miscibility

Since the special advantages of Mobil Coolant Advanced will only be achieved when it is used exclusively, mixing Mobil Coolant Advanced with other Mobil coolants or engine coolants from other producers is not recommended.



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Mobil™ Coolant Advanced

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 -36 °C	ASTM D 1177
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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
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Mobil™ Coolant Advanced

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

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