Mobil Antifreeze Advanced

Data Sheets

Mobil Antifreeze Advance - Concentrate

Properties

Mobil Antifreeze Advanced is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use. Mobil Antifreeze Advanced contains a corrosion inhibitor package based on organic additive technology (OAT coolant).

Mobil Antifreeze Advanced is free of nitrites, amines, phosphates, silicates and borates.

Mobil Antifreeze Advanced contains Glysantin® G30® by BASF and fulfills the requirements of the following coolant standards:

- AS 2108-2004
- ASTM D 3306
- ASTM D 4985
- BS 6580:2010
- CUNA NC 956-16
- AFNOR NFR 15-601
- ÖNORM V 5123
- JIS K 2234:2006
- SAE J1034
- SANS 1251:2005
- China GB 29743-2013

- Audi/Bentley/Bugatti/Lamborghini/Seat/Skoda/VW (TL774-D/F);
- DAF (MAT74002);
- Deutz (DQC CB-14);
- MAN (MAN 324 SNF);
- Mercedes Benz (MB-Approval 325.3);
- Mini Cooper D from 2007-2010;
- MTU (MFT. 5048);
- Porsche vehicles built between 1996 and 2009; Siemens (wind power)

Mobil Antifreeze Advanced contains Glysantin® G30® by BASF and is officially approved by the following OEMs:

Mobil Antifreeze Advanced is usually available in clear red-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 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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Colors

Mobil Antifreeze Advanced is usually available in clear red-violet.

Quality Control

Shelf Life

- 5 years from date of manufacture when stored in originally closed, air-tight containers at temperatures of maximum 30°C.
- All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be exposed to hot sun or freezing conditions.
- Manufacture date can be identified from an eight digit code printed on the bottle: YYYYMMDD.

Colour

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Mobil® Antifreeze Advanced

Chemical nature
Ethylene glycol with corrosion inhibitors

Physical data

- **Density, 20 °C**: 1.122 – 1.125 g/cm³  DIN 51 757-3
- **Viscosity, 20 °C**: 22 – 26 mm²/s  DIN 51 562
- **Refractive index, 20 °C**: 1.432 – 1.436  DIN 51 423
- **Boiling point**: > 160 °C  ASTM D 1120
- **Flash point**: > 120 °C  DIN ISO 2592
- **pH value**: 8.2 – 8.6  ASTM D 1287
- **Reserve alkalinity**: 8 – 11 ml  ASTM D 1121
- **Water content**: max. 3 %  DIN 51 777-1

Stability
Inhibitor stability: no flocculation  VW TL 774 D/F
Hard water stability: no flocculation  VW PV 1426

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

Electrical Conductivity
30-50 vol % solution
at 23 °C: approx. 4 mS/cm  ASTM D 1125

Glassware Corrosion Test
ASTM D 1384
- Metal coupons: typical weight change  ASTM D 3306 limit
- Copper: -0.8 mg/coupon
- Solder: -1.2 mg/coupon
- Brass: -0.9 mg/coupon
- Steel: 0.1 mg/coupon
- Cast iron: 1.3 mg/coupon  10 max
- Cast aluminum: -4.0 mg/coupon  30 max

Simulated Service Test
ASTM D 2570
- Metal coupons: typical weight change  ASTM D 3306 limit
- Copper: -2.8 mg/coupon
- Solder: -1.7 mg/coupon
- Brass: -1.4 mg/coupon
- Steel: -0.3 mg/coupon
- Cast iron: 3.0 mg/coupon  20 max
- Cast aluminum: -3.3 mg/coupon  60 max

Cavitation Erosion Corrosion Test
ASTM D 2809
- Aluminum water pump: Rating  9  8 min

Heat Transfer Corrosion Test
ASTM D 4340
- typical corrosion rate:  ASTM D 3306 limit
- G AlSi6Cu4: 0.3 mg/cm²/week  1.0 max

Moisture
max. 3 %  DIN 51 777-1

Foaming Characteristics

- 3.3 vol % solution: max. 20 ml / max. 5 ml  VW TL 774-D/F
- 3.3 vol % solution: max 50 ml / 3 s  ASTM D 1881

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