#### Polarization Resistance

NF R 15-602-9

typical value 1.2 \* 10° **Ω**\*cm<sup>2</sup> Aluminum:

limit NF R 15-601 > 10<sup>6</sup> **Ω**\*cm<sup>2</sup>

### **Quality Control**

The above data represent average values at the time of going to press of this technical information. They cannot be regarded as specified data. Specified product data are issued as a separate product specification.

### Handling

- Minor spills should be soaked up with oil absorbent granules, sand or dirt. The spillage site should then be washed with soapy water and dried.
- Wash off any spillage on paintwork immediately.
- Avoid contact with galvanised equipment when storing or dispensing this product, as this will prompt a corrosive reaction.

### 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. YYYY.MM.DD.

### Colour

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.

### **Mobil** Antifreeze Advanced

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# **Mobil** Antifreeze Advanced

### **Data Sheets**



### Mobil Antifreeze Advanced -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 and China GB 29743-2013.

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

- 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);

### Miscibility

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

Mobil Antifreeze Advanced should be blended with water in a concentration amongst 33% to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and Mobil Antifreeze Advanced is generally advisable.

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 may not exceed the following threshold values:

Water hardness:	0 – 3.6 mmol/l
Chloride content:	max. 100 ppm
Sulfate content:	max. 100 ppm

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Mini Cooper D from 2007-2010;

MTU (MTL 5048);

Porsche vehicles built between1996 and 2009; Siemens (wind power)



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# **Mobil** Antifreeze Advanced

Chemical nature Appearance			Electrical Co	Electrical Conductivity			
Ethylene glycol with corrosion inhibitors Clear liquid without solid contaminants		ninants	30-50 vol % solu	30-50 vol % solution			
Physical data				at 23 °C	ap	pprox. 4 mS/cm	ASTM D 1125
Density, 20 °C	1.122 – 1.125 g/cm <sup>3</sup>	DIN 51 757-3		Glassware Co	Glassware Corrosion Test		
Viscosity, 20 °C	22 – 26 mm²/s	DIN 51 562		ASTM D 1384			
Refractive index, 20	0 °C 1.432 – 1.436	DIN 51 423		Metal coupons	ty	typical weight change A	
Boiling point	> 160 °C	ASTM D 1120			m	g/coupon	mg/coupon
Flash point	>120 °C	DIN ISO 2592		Соррег	_(	0.8	10 max
pH value	8.2 - 8.6	ASTM D 1287		Solder	-1	.2	30 max
' Reserve alkalinity	8 – 11 ml	ASTM D 1121		Brass	-C		10 max
Water content	max. 3 %	DIN 51 777-1		Steel	0.		10 max
Water content	111dX. 5 70			Cast iron	1.3	10 ma	
Stability				Cast aluminum	-4 Druico Tost	.0	30 max
Inhibitor stability no flocculation VW TL 774 D/		VW TL 774 D/F			Simulated Service Test		
Inhibitor stability after 168 h		V VV 1L / /4 D/F		ASTM D 2570			
Hard water stability	no flocculation	VW PV 1426		Metal coupons		pical weight change	ASTM D 3306
after 10 days				Cooper	-2	g/coupon 。	mg/coupon
				Copper Solder	-2		20 max 60 max
Frost Protectic	Π			Brass	-1		20 max
Freezing point		ASTM D 1177		Steel	-C		20 max
50 vol % solution	below -38 °C			Cast iron	3.0	20 ma	
33 vol % solution	below -18 °C			Cast aluminum	-3	.3	60 max
0,00				Cavitation Erosion Corrosion Test			
-10,00				ASTM D 2809			
.∪ -20,00							ASTM D 3306
-30,00					Ra	ating	Rating
-30,00 				Aluminum water	pump 9		8 min
E -50,00				ы <b>т</b> (	<u> </u>	<b>-</b> .	
				Heat Transfer Corrosion Test			
-60,00	10 20 30	40 50 60	Freezing Point ASTM D 1177	ASTM D 4340			
	Concentration,	Vol. %				pical corrosion rate	ASTM D 3306
	a charictica					g/cm²/week	mg/cm²/week
Foaming Char	acteristics			G AlSi6Cu4	0.	3	1.0 max

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33 vol % solution

33 vol % solution max. 20 ml / max. 5 ml

VW TL 774-D/F max 50 ml / 3 s ASTM D 1881

## Advanced

ASTM D 1125

ASTM D 3306 limit

ASTM D 3306 limit

ASTM D 3306 limit

ASTM D 3306 limit mg/cm²/week