

## G-Energy Antifreeze NF

High Performance Antifreeze

**G-Energy Antifreeze NF** is extra high performance coolant made of ethylene glycol. It contains inhibitors providing outstanding protection of engines of both ferrous and aluminum construction against corrosion and frost damage. G-Energy Antifreeze NF is free of nitrites, amines, phosphates, and borates. Concentrated antifreeze formula needs to be diluted prior to be used.

### Applications

- Car, truck, bus and stationary engines of both ferrous and aluminum construction
- G-Energy Antifreeze NF Concentrate must be diluted prior to be used as recommended by vehicle manufacturer (see dilution chart).
- For preparation of the coolant it is recommended to use distilled or deionized water. Tap water can be used when not excessively hard.

### Dilution Chart

| Antifreeze concentrate/Water, v/v% | Freeze protection |
|------------------------------------|-------------------|
| 33/67                              | -18°C             |
| 50/50                              | -38°C             |
| 60/40                              | -55°C             |

### Approvals:

- Daimler
- MB 325.0
- MAN 324 NF
- DEUTZ DQC CA-14
- Jenbacher TA-Nr.1000-0201

### Meets the requirements:

- ASTM D3306
- ASTM D4985
- SAE J1034
- BS 6580:2010
- AS 2108-2004
- AFNOR SNF R15-601
- CUNA NC 956-16
- ÖNORM V 5123
- SANS 1251:2005
- SH 0521-1999
- VW/Audi
- Seat
- Skoda TL 774-C (G-11)
- BMW N 600 69.0
- TLV 23009 A
- MAN B&W List 3.3.7
- Maybach 325.0
- MINI (BMW) N 600 69.0
- MTU MTL 5048
- Opel
- General Motors B 040
- 0240 Porsche 924, 928, 944, 968
- Rolls-Royce (built as from 1998)
- Saab 6901599
- Smart 325.0
- Tesla (vehicles built as from 2013)
- Van Hool
- Volvo Car 1286083 Issue 002
- Volvo Truck (vehicles built up until 2005)
- Zastava
- Liebherr Machines Bulle TLV 035

### Typical Characteristics

| Properties  | Method          | G-Energy Antifreeze NF |
|---|-----------------|------------------------|
| Color   | visually        | Red                    |
| Density @20°C, g/cm <sup>3</sup>                              | DIN 51 757-4    | 1,122 – 1,125          |
| Kinematic viscosity @20°C, mm <sup>2</sup> /s                 | DIN 51 562      | 24 – 28                |
| Refractive Index @20°C  | DIN 51 423-2    | 1,432 – 1,436          |
| Boiling point, °C   | ASTM D1120      | > 165 °C               |
| Flash point, °C   | DIN EN ISO 2592 | > 120 °C               |
| pH (33% volume solution)                                      | ASTM D1287      | 7,1 – 7,3              |
| Reserve Alkalinity, ml HCl                                    | ASTM D1121      | 13 –15                 |
| Ash, wt%  | ASTM D1119      | max. 1,5               |
| Water Content, wt%  | DIN 51777-1     | max. 3,5               |
| Freezing Point (50% volume solution), °C                      | ASTM D 1177     | below -38 °C           |
| Freezing Point (33% volume solution), °C                      | ASTM D 1177     | below -18 °C           |
| Foaming characteristics (33% volume solution)                 | ASTM D 1881     | max.50ml/3s            |
| Electrical conductivity @23°C (30-50% volume solution), mS/cm | ASTM D 1125     | approx. 4              |

### Available type and size

| Product Name              | Type  | Available Size                  |
|---------------------------|---|---------------------------------|
| G-Energy Antifreeze NF    | Concentrate (needs to be diluted prior to be used)  | 1kg, 5 kg , 220kg , 1000kg      |
| G-Energy Antifreeze NF 40 | Ready to use product that has been premixed with concentrate and water to obtain -40°C freezing point | 1kg, 5 kg , 10kg, 220kg, 1000kg |

### Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.