ANTIFREEZE G11

DESCRIPTION

ANTIFREEZE G11 for cooling of petrol and diesel engines of modern cars, bus and trucks with more aluminum parts. Suitable for electric vehicles. Monoethylene glycol-based coolant in combination with the Inorganoc Additive Technology (IAT). Is free of nitrites, amines and phosphates (NAP free).

APPLICATION

Engine coolant is meant for use in a car cooling system up to -40 ˚C. Handle in accordance with vehicle manufacturer's specifications. Recommended replacement interval: for passenger cars each 120 000 km., or every 3 years.

SPECIFICATIONS

- BS 6580
- AFNOR R 15/601
- SAE J 1034
- JIS K 2234
- CUNA NC 956-16
- UNE 26-361
- ASTM D 3306
- Porsche/Volkswagen/Audi/Seat/Skoda TL 774 C
- MAN 324 Type NF
- Deutz DQC CA-14
- Fiat/Lancia/Alfa Romeo 9,55523
- Chrysler MS-7170
- Iveco 18-1830
- Ford ESD-M97B49-A
- GM-Opel GME L1301
- Saturn
- JI Case JIC-501
- MTU MTL 5048

TYPICAL PROPERTIES

• Appearance	Transparent liquid free of mechanical impurities	Visual
• Color	Green- blue	Visual
• Density at 20 ˚C	> 1 g/cm3	ASTM D 4052
• Freezing point (1:1)	< -40˚C	ASTM D 1177
• Boiling Point	>110˚C	ASTM D 1120
• pH	7,5-11,0	ASTM D 1287
• Reserve alkalinity (0,1 HCl/10 ml)	> 8 ml	ASTM D 1121
• Foaming characteristics at 88 ˚C	< 50 ml / 2 s	ASTM D 1881

HARTOL

ANTICORROSION PROPERTIES

ASTM D1384 Glassware Corrosion Test Results:

	Weight Loss mg/ Coupon					
	Copper	Solder	Brass	Steel	Cast Iron	Aluminum
ASTM D3306, max	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D 4340 Aluminum Corrosion under heat rejecting conditions:

	Weight Loss mg/ cm²/week
ASTM D 3306, max	1,0
Typical	-0,1

COMPATIBILITY WITH OTHER COOLANTS

Most coolants contain a balanced compound of corrosion inhibitors. You may affect anticorrosion protection by mixing coolants with different inhibitors. Storage temperature: -30˚C to +35˚C. Avoid direct sunlight!