



## Gulf Antifreeze

### Anti-freeze Coolant Concentrate

#### Product Description

**Gulf Antifreeze** is "**British Standard coolant**" concentrate based on Mono Ethylene Glycol (MEG) and suitable corrosion inhibitors to provide protection against frost and corrosion. It needs to be mixed with appropriate amount of water for using as cooling and heat transfer fluid in internal combustion engines. It is free from potentially harmful additives such as nitrites, amines and phosphates and hence it contributes to a safer environment. It is neutral towards gaskets, hoses and provides good resistance against foam.

#### Features & Benefits

- It is formulated to provide effective corrosion protection to cooling system and engine parts made out of ferrous and non-ferrous metals.
- It provides round the year protection against frost and boiling
- It is compatible with seals.
- As it is free from nitrites, amines and phosphates, it contributes to safer environment.

#### Applications

- It is recommended to be used at least 33% dosage of Gulf Antifreeze in 67% water. For optimum performance, 40% of concentrate in 60% of water is recommended.
- It is recommended for use in cooling systems of all types of liquid cooled automotive and industrial engines where such types of coolants are used. (Please refer OEM manual for recommended coolant)

Warning: Keep all antifreezes out of reach of children. Do not drink antifreeze. If swallowed, induce vomiting and immediately seek medical advice.

#### Dilution Table:

Antifreeze	Water	Freeze Protection
33%	67%	Up to -18 °C
50%	50%	Up to -35 °C
60%	40%	Up to -52 °C

#### Specifications & Typical Properties:

Meets the following Specifications		
BS 6580:1992 and BS 6580: 2010*		X
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Density @ 20°C, Kg/l	D 1298	1.131
Equilibrium Boiling Point °C	D 1120	155
Freezing point °C (33 vol %)	D 1177	-18
Freezing point °C (50 vol %)	D 1177	-35
Reserve Alkalinity	D 1121	3.0
pH value (50 vol %)	D 1287	8.4

\*for product containing 25% or more MEG, BS 6580:2010 requires the addition of minimum 25 ppm of denatonium benzoate (bitterant), or the package has to be fitted with a childproof closure.

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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