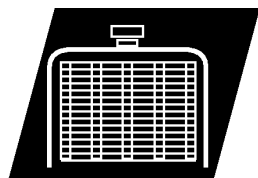


# HI CONCENTRATE COOLANT



## Data sheet

Anti Freeze - Coolant with Extended Life based on high purity ethylene glycol with organic acid technology

### APPLICATIONS

Gasoline and diesel engines

Homogenous mix

Minimum 33%  
Maximum 70%

- Ensures freezing, overheating and corrosive protection for cooling system of all engines both gasoline and diesel.
- When diluted in demineralised water, it will form a permanent coolant fluid that can be used throughout the year.
- To ensure a homogenous mixture, it is recommended to mix mechanically the antifreeze with the water
- Protection against freezing depends upon the proportions of Total Hi Concentrate Coolant in the water.

% by volume of Total Hi Concentrate Coolant	33	40	50	68
Protection against freezing temperature, °C	-20	-26	-37	-69

### PERFORMANCES

Specifications and Standards

Recommended for use

- AFNOR NFR 15-601
- SAE J 1034
- ASTM D 3306
- ASTM D 4895
- GM 6277M
- Ford WSE-M97B44-D
- Daimler Chrysler MS 7179 and MS 9769
- General Motors, Ford, Daimler Chrysler, Daewoo, Toyota, Nissan etc.....

### CUSTOMER BENEFITS

Non Toxic additives  
Lifetime

Organic inhibitors

High quality defoamer  
Long term protection  
against all forms of  
corrosion

- Does not contain any Amine, Phosphate, Silicate, Nitrite and Borax.
- Is effective over at least 240,000km (3000hours) for use in cars, light trucks and heavy duty vehicles and industrial internal combustion engines.
- The electrochemical action of the organic inhibitors, never consumed during the drain period, extends material life and guarantees a maximum cooling of the engine.
- No effect on rubber hoses, plastic or original vehicles finishes
- Provides antirust and corrosion protection for metals used in cooling systems, cast iron, aluminium, steel brass, etc
- Good stability in hard water with excellent boiling point against overheating.

### CHARACTERISTICS

Total Hi Concentrate Coolant	Methods	Units	Typical
Appearance	Visual	-	Clear
Specific Gravity at 15.5°C	ASTM D1122	kg/m <sup>3</sup>	1.1146
Colour	Distinctive	-	Blue Green
pH, 50% dilution by volume	ASTM D1287	-	8.7
Freezing Point at which the first ice crystals 50% by volume solution	ASTM D1177	°C	-37
Concentrate		°C	-20.6
Boiling Point (undiluted)	ASTM D1120	°C	173

The typical characteristics mentioned represent mean values.

**Total Hi Concentrate Coolant  
Version, July 2007**

This lubricant, when used according to our recommendations and for the purpose for which is intended, presents no particular hazards. A safety data sheet complying with current EC legislation can be obtained from your local commercial adviser.