



## ENERCOOL HD 30/70

### DESCRIPTION:

Coolant Anti-freeze fluid for direct application, formulated based on monoethylene glycol and a selected package of inorganic additives which inhibit corrosion and oxidation, decaling and antifoam, highlighting its specific formula of super-stabilized silicates. NAP free type (free of phosphates, amines and nitrites), but also free of borates and molybdates. It provides effective protection of the cooling circuit in all kind of internal combustion engines.

### PROPERTIES & ADVANTAGES:

- ✓ Excellent engine protection from the corrosion of cast, steel and its alloys, as well as aluminum, its alloys and other soft metals.
- ✓ NAP free inorganic technology (free of phosphates). Any problems with deposits deriving from the use of phosphates are avoided.
- ✓ Antifreeze protection of the coolant liquid down to -17 °C (+1.4 °F), avoiding any damage to the engine in cold climates.
- ✓ Antibubbling protection up to +135 °C (+275 °F) in closed, pressurized circuits, protecting the engine in overheating situations.
- ✓ Excellent heat transfer capacity.
- ✓ Good antifoam properties.
- ✓ Its high boiling point avoids fluid cavitation and hence the erosion of the circuit owing to the implosion of fluid bubbles against the interior walls of the circuit. The risk of the pitting of the cylinder sleeves and pumps is avoided which could give rise serious damage to the engine.
- ✓ Avoids the formation of lime deposits.
- ✓ In heating installations, lengthens the life of the boiler, radiators, pumps and the other elements to be found at the installation.
- ✓ Compatible with joints and elastomers usually used in cooling circuits.

### APPLICATIONS:

- ✓ Refrigeration fluid in closed cooling systems of internal combustion engines in cars, trucks, buses, farm machinery, construction and earthworks machinery or in any other vehicle whose cooling system requires a water-glycol based mixture, specially indicated for cast engines.
- ✓ Household and industrial heating installations that work in a closed circuit.
- ✓ Not suitable for cooling systems in aviation.

### TECHNICAL DATA:

PHYSICOCHEMICAL CHARACTERISTICS	STANDARD	VALUE
Color	Visual	Green
Content in glycols (% weight)	UNE 26-361 / 2	30
Density (kg/l)	ASTM D-1122	1.045
Freezing point (°C)	ASTM D-1177	≤-15
Boiling point at 1 atm (°C) (°F)	ASTM D-1120	> 100 (212)
Boiling point at 1.8 atm (°C) (°F)	ASTM D-1120	> 130 (266)
Boiling point at 2 atm (°C) (°F)	ASTM D-1120	> 135 (275)
Boiling point at 2.4 atm (°C) (°F)	ASTM D-1120	> 145 (293)
Alkaline reserve (ml HCl 0.1 N)	ASTM D-1121	6
pH	ASTM D-1287	8.5 - 10
Formation of foam, Volume (ml)	ASTM D-1881	< 30
Foam disappearance time (seconds)	ASTM D-1881	1

**HOW TO USE:**

Direct use, do not dilute in water.

It is recommended not to mix with any coolant or antifreeze liquids of a different nature.

Check the freezing or boiling points or the minimum concentration of glycol required by the manufacturer of the engine or machinery.

**SPECIFICATIONS / QUALITY LEVEL:**

ENERCOOL HD 30/70 meets, among others, the requirement of the International Standards:

ASTM D-3306 (ASTM-D-1384, 4340, 2570,2809) ASTM D-4985 BS 6580 (GB) CUNA NC 956-16 (I) EMPA (CH) E/L 1415C (MIL Italy)	JIS K2234 NATO S-759 SAE J1034 UNE 26361-88(E) FW Heft R 443 (D) Afnor R 15601 (F) except pH KSM 2142 (K)
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ENERCOOL HD 30/70 overpass, among others, the requirements of OEM Standards (\*):

GM US 6277 M VOLVO (Reg. No. 260)	MERCEDES DBL 7700 (325.0) MAN 324 type NF
VAG Group (Porsche, Audi, Seat, Volkswagen, Skoda) where G11 technology is needed, with the specification: <b>VW (VAG) TL-774C (G11)</b>	

(\*) OEM standards require 50% coolants. If you need it, use our concentrated mineral antifreeze, diluting it 50% preferably with demineralized water.

**PACKAGING:**

5 L bottle, 208 L drum and 1,000 L IBC container.

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