



ENERCOOL HD 50/50

DESCRIPTION :

Antifreeze-coolant for direct use (no need to dilute) in closed circuits in any kind of vehicles and engines which require a top-quality and long-lasting coolant in service, with a **G12+** specification level.

PROPERTIES & ADVANTAGES:

100% organic additives (OAT), silicate-free.

Its formulation, in accordance with the latest technology, ensures a product which provides the coolant-antifreeze fluid with all the necessary properties and characteristics for an optimum performance:

- Antifreeze, with protection up to -37 °C.
- Coolant, with an effective performance in pressure circuits, delaying boiling point to +145 °C, preventing the engine from overheating.
- Anticorrosive. Its latest-generation 100% organic additives effectively protect new aluminum radiators and aluminum / magnesium alloys as well as cast iron, copper and alloy welds.
- Anti-cavitation, preventing foam and the retention of air, ensuring the good performance of the pump.
- NAP-free corrosion inhibitors: free of nitrites, amines and phosphates, in addition to other components harmful to the ecosystem such as: boron and molybdate compounds.
- Complete degradation in 20 days, calculation conducted on the main component.
- Long life service product:
 - ✓ Up to 650,000 km or 5 years in heavy goods vehicles and buses.
 - ✓ Up to 8,000 hours or 5 years in construction and agricultural equipment.
 - ✓ Up to 250,000 km or 5 years in passenger vehicles.
 - ✓ Up to 32,000 hours or 5 years in stationary engines.

TECHNICAL DATA:

PHYSICOCHEMICAL CHARACTERISTICS	STANDARD	VALUE
Color	Visual	Purplish Pink
Glycol content (%)	UNE 26-361 / 2	50
Density (kg/L)	ASTM D-1122	1.07
Crystallization point (°C) (°F)	ASTM D-3321	≤ -35 (-31)
Boiling point at 1 atm (°C) (°F)	ASTM D-1120	> 105 (221)
Boiling point at 1.8 atm (°C) (°F)	ASTM D-1120	> 130 (266)
Boiling point at 2 atm (°C) (°F)	ASTM D-1120	> 145 (293)
Boiling point at 2.4 atm (°C) (°F)	ASTM D-1120	> 155 (311)
pH	ASTM D-1287	8.0 – 9.0

HOW TO USE:

ENERCOOL HD 50/50 is to be used directly.

We recommend removing the residue of previous liquids prior to use, in order to prevent interference and to ensure the full performance of the product.

We recommend complete the levels directly with antifreeze ENERCOOL HD 50/50, never directly with water or any other antifreeze of other nature or concentration.

ENERCOOL HD 50/50 is an organic antifreeze (OAT-SNF) that is fully compatible with the new generation organic hybrid coolants (HOAT-SiOat) based on organic acid + long-life stable silicates, especially in cooling systems that have previously used a HOAT-SiOat coolant.

SPECIFICATIONS / QUALITY LEVEL:

ENERCOOL HD 50/50 meets among others the requirements of International Standards:

ASTM D-3306 (ASTM-D-1384, D-4340, D-2570, D-2809)	BS 6580 (GB)
ASTM D-4985	CUNA NC 956-16 (I)
CHR-MS-12106 (ASTM-D-2809 mod, D-6208)	EMPA (CH)
UNE 26361-88(E)	FVV Heft R 443 (D)
AFNOR R 15/601(F) *	KSM 2142(K)
SAE J1034*	JIS K2234 (J)*
NATO S-759	

*except alkalinity reserve

ENERCOOL HD 50/50 satisfies among others the specifications of the following heavy machinery, transport and tractors' manufacturers:

AKERMAN	GM US: 6277M	MASSEY-FERGUSON
AUSA	GM 1899M 1	MB: 326.3/325.3 (**)
BENATI	HYUNDAI	MTU MTL 5048
BOBCAT	ISUZU	RAYGO WAGNER
BOMAG	JCB	RENAULT TRUCKS: 41-01-001 Type D
CASE	JENBACHER	SAMSUNG
NEW-HOLLAND-POCLAIN	JOHN DEERE JDM: H24 C2/ JDM:H5	SCANIA TB 1451
CATERPILLAR (*)	KOBELCO	TEREX
CLAAS	KOMATSU 07.892 (2001)	TIGER
CLARK MICHIGAN	LEYLAND TRUCKS LTS 22 AF10	VOLVO: Reg No. 260 and VCS (yellow)
CUMMINS 85T8-2 1 / 90T8-4	LIEBHERR	WÄRTSILÄ 32-9011
DAF: 74002	MACK: 014GS17004	WUKESHA
DOOSAN-DAEWOO	MAN 248 y 324 Type SNF	YANMAR
DEUTZ/MWN: 0199-99-2091 2	MAN B&W D36 5000	
FIAT-HITACHI	MANITOU	
FURUKAWA		

(*) Caterpillar recommends substitute the fluid every 2 years of service, which guarantee a high level of protection and anticorrosion.

(**) 325.3 corresponds to the concentrated to dilute at 50%; 326.3 corresponds to the prediluted product at 50% for direct use.

ENERCOOL HD 50/50 ensures maximum protection in the following car engines:

ALFA	HONDA: HES D2009-75	OPEL/GM : QL130100
BENTLEY	HYUNDAI / KIA	PORSCHE
BMW/MINI COOPER	INFINITI	PSA (PEUGEOT / CITROËN): B715110
BUGATTI	JAGUAR: VIN 878389	RENAULT : 41.01.001 -D
CHEVROLET	LAND ROVER /MG ROVER	SAAB
CHRYSLER/JEEP: MS12106	LAMBORGHINI	SUZUKI /TOYOTA/SUBARU: UAZ-VAZ
DACIA	LEXUS	VOLVO: Reg No. 260 and VCS (yellow)
DAEWO	MAZDA / MITSUBISHI / NISSAN	
FIAT: 9.55523	MERCEDES BENZ:326.3/325.3	
FORD: WSS-M97B44D		
VAG Group (Audi, Seat, Volkswagen, Skoda) where it is needed to deploy G12+ technology with organic additives (OAT), specification: VW (VAG) TL-774F (G12+) . Compatible with G12.		

PACKAGING:

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

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