

MOTUL HD COOL ORA ULTRA

High-Performance Engine Coolant Concentrate
Monoethylene glycol (MEG)-based coolant with organic acid technology (OAT)

TYPE OF USE

HD COOL ORA ULTRA is a high-performance coolant concentrate formulated to provide advanced corrosion protection by forming a protective layer directly on metal surfaces such as engine blocks, cylinder heads, liners, water pumps, and radiators.

It is based on monoethyleneglycol, using organic additives (OAT – Organic Acid Technology).

HD COOL ORA ULTRA is recommended for use in cooling systems of heavy-duty vehicles, construction and mining equipment, agricultural machinery, garden equipment, marine engines, and stationary engines, offering extended oil change intervals and long-term stability.

It is also available as a pre-diluted 50:50 mixture under the name **HD COOL ORA -37°C**.

PERFORMANCES

HD COOL ORA ULTRA is a monoethylene glycol-based coolant formulated with Organic Additive Technology. It is free from mineral inhibitors such as silicates, phosphates, nitrites, borates, and amines, ensuring long-lasting and stable protection for modern engine cooling systems.

HD COOL ORA ULTRA provides optimal protection against freezing, boiling, and corrosion across all metallic components, including aluminum, steel, cast iron, brass, and copper. Its organic inhibitors deliver extended drain intervals and durable anti-corrosion performance, even at high temperatures and over long service periods.

The coolant's excellent thermal exchange properties improve heat transfer efficiency, enhance engine cooling performance, and help prevent cavitation, extending the lifetime of water pumps and reducing stress on components such as radiators and thermostats.

It also eliminates the risk of scaling and deposits, maintaining a clean and efficient cooling system.

HD COOL ORA ULTRA is fully compatible with seals, hoses, pipes, and plastic parts used in cooling circuits, making it suitable for a wide range of applications.



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RECOMMENDATIONS

HD COOL ORA ULTRA must be diluted with water before use. For optimal performance, demineralized water is recommended.

To maintain effective anti-corrosion protection, the product should not be diluted below 33%. Refer to the dilution chart for appropriate mixing ratios.

HD COOL ORA ULTRA (%)	33	40	50	60
Freeze Point Protection (T°C / T°F)	-22 / -3	-30 / -22	-41 / -42	-54 / -65
Boiling Point Protection (T°C / T°F)	132 / 282	136 / 277	134 / 273	132 / 269

It can be used both for topping up and for complete replacement of the coolant in the system to ensure maximum efficiency.

Drain intervals should follow the manufacturer's recommendations.

Always check or drain the coolant only when the engine is cold.

HD COOL ORA ULTRA is compatible with ethylene glycol-based coolants, but mixing with other products should be avoided to maintain optimal performance.

This product must not be used for protecting drinking water systems from freezing.

For safety, **HD COOL ORA ULTRA** contains a bitterness agent to discourage accidental ingestion, as coolants may have a sweet taste but are harmful if swallowed.

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

Product specifications are definitive from the order which is subject to our general conditions of sale and warranty.

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PROPERTIES

Color	Visual	Orange Fluo
Density at 20°C (68°F)	ASTM D5931	g/mL 1.114
pH	ASTM D1287	9.1
Initial crystallization	ASTM D1177	-37.0 °C / -35.0 °F
Freezing protection		-37.0 °C / -35.0 °F
Boiling point	ASTM D1120	177 °C / 351 °F

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STANDARDS	
ASTM STANDARD	D3306-20
BRITISH STANDARD	BS 6580
CATERPILLAR	all MWM TCG and Caterpillar CG gas engines
Cuna Standards	NC 956-16
	TS 3582
OEM PERFORMANCES	
AGCO	Power
CUMMINS	CES 14439, CES 14603
DAIMLER	DTFR 29C110 (former MB 325.3), DTFR 29D110 (former MB 326.3)
DEUTZ	DQC CB-14
IVECO	18-1830
MAN	324 type SNF
PACCAR	DAF 74002, DW03245403

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