

**MOTUL**[®]

AUTO COOL OPTIMAL

-37°C

Ready to use cooling liquid



**Anti-corrosion & antifreeze
Protection -37°C / -35°F
Technology Organic Tech**

Nitrite free / Amine free / Phosphate free / Borate free / Silicate free

TYPE OF USE

MOTUL AUTO COOL OPTIMAL -37°C is a ready to use long life cooling liquid, based on monoethyleneglycol, using an Organic Acid Technology (OAT) additivation named Organic Tech. Strongly recommended for all cooling systems: passenger cars, heavy duty, construction and agriculture vehicles, gardening, ships, stationary engines, ...

PERFORMANCES

STANDARDS AND MANUFACTURER SPECIFICATIONS: Refer to chart.

Contains a bitterness agent to prevent from drinking: coolants and antifreezes have a sweet taste but are harmful.

Optimal protection of cooling systems against freezing and metallic parts against corrosion. OAT coolant technology provides an excellent thermal exchange and therefore improves engine cooling efficiency and prevents from boiling.

This organic technology provides anti-corrosion properties that remain at high temperature and aging. Low corrosion inhibitors consumption allows extended drain intervals. Water pumps protection, avoid cavitation.

Seals, hoses, pipes and plastic parts friendly.

RECOMMENDATIONS

Ready to use, do not add any water.

Drain intervals: Refer to the manufacturers' recommendation.

Do not mix with non-organic products.

This product should not be used to protect drinking water systems against freezing.

Attention, control or drain the coolant only when the engine is cold.

Dangerous. Respect the use and handling recommendations.

PROPERTIES

Nitrite free, Amine free, Phosphate free, Borate free, Silicate free.

Color	Visual	Orange fluo
Density at 20°C / 68°F	ASTM D4052	1.068
pH	ASTM D1287	8.4
Initial crystallization	ASTM D1177	-38°C / -36°F
Freezing protection		-37°C / -35°F
Boiling Point	ASTM D1120	136°C / 277°F (+1.5 bar)
Alkalinity reserve	ASTM D1121	2.8 mg KOH/g

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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OEM Group	OEM	Specification
Cummins	Cummins	IS series & N14
Cummins	Wärtsilä	32-9011
Daimler	Mercedes-Benz	MB 326.3
Detroit Diesel	Detroit Diesel	Power Cool Plus
Deutz	Deutz	0199-99-1115 (2) (5)
Deutz / MWM	Deutz / MWM	0199-99-2091 (4) (8)
Fiat	Fiat	FIAT 9.55523
Ford	Ford	WSS-M97B44-D
General Motors	Opel - GM	GM 6277M (+B040 1065)
General Motors	Saab	GM 6277M (+B040 1065)
General Motors	Vauxhall	QL 130100
General Motors	Vauxhall	GM 6277M (+B040 1065)
John Deere	John Deere	JDMH5
Komatsu	Komatsu	07.892 (2007)
Liebherr	Liebherr	MD1-36-130
MAK	MAK	A4.05.09.01
MAN	MAN	324 typ SNF
MAN	MAN B&W AG	D36 5600
Mazda	Mazda	MEZ MN 121 D
Mitsubishi	Mitsubishi	JQ07913-014
MTU	MTU	MTL 5048
Paccar	DAF	74002
Paccar	Leyland Trucks	DW03245403
Renault / Nissan	Renault	41-01-001/--S Type D
Tata Motors	Jaguar	CMR 8229
Tata Motors	Jaguar	WSS-M97B44-D
Tata Motors	Land-Rover	WSS-M97B44-D
Ulstein Bergen	Ulstein Bergen	2.13.01
Volvo AB	Mack	014 GS 17009
Volvo AB	Renault Trucks	41-01-001/--S Type D
Volvo AB	Volvo Construction	128 6083 / 002
Volvo AB	Volvo Trucks	128 6083 / 002
VW (VAG)	Audi	TL-774 D = G 12
VW (VAG)	Audi	TL-774 F = G 12+
VW (VAG)	Seat	TL-774 D = G 12
VW (VAG)	Seat	TL-774 F = G 12+
VW (VAG)	Skoda	TL-774 D = G 12
VW (VAG)	Skoda	TL-774 F = G 12+
VW (VAG)	Skoda	61-0-0257
VW (VAG)	Volkswagen	TL-774 D = G 12
VW (VAG)	Volkswagen	TL-774 F = G 12+
Wärtsilä	SACM Diesel	DLP799861
Wärtsilä	Wärtsilä	32-9011
BRB		BR 637
ASTM Standards		ASTM D3306 / D4656
British Standards		BS 6580
FVV Standards	Germany	FVV Heft R443
Korean Standards		KSM 2142
MIL Standards	MIL-Belgium	BT-PS-606 A
MIL Standards	MIL-France	DCSEA 615/C
MIL Standards	MIL-Italy	E/L-1415b
NATO Standards		NATO S-759
UNE Standards		UNE 26-361-88/1

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