

INUGEL OPTIMAL ULTRA

**Concentrated antifreeze
Anticorrosion & antifreeze
OAT Technology
Nitrite free / Amine free / Phosphate free / Borate free / Silicate
free**

TYPE OF USE

MOTUL INUGEL OPTIMAL ULTRA is a concentrated antifreeze that should be mixed with soft water for immediate use as a cooling liquid, based on monoethyleneglycol, using organic additives (OAT – Organic Acid Technology).
Strongly recommended for all cooling systems: passenger cars, heavy duty, construction and agriculture vehicles, gardening, ships, stationary engines ...

PERFORMANCES

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 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, rubber pipes, hoses and plastic parts friendly.

RECOMMENDATIONS

Do not use pure product. Mix with soft water according to the required freezing protection: refer to chart.
To maintain anti-corrosion properties, do not dilute below 33%.
Water for dilution: If possible use soft water: Maximum hardness 35°F and chlorides and sulfates maximum contain 500 ppm.
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.



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PROPERTIES

Color	Visual	Orange Fluo
Density at 20°C (68°F)	ASTM D4052	1.112
Sulfated Ash	ASTM D1119	1.10 % weight
Alkalinity reserve	ASTM D1121	6.2 mg KOH/g
Boiling point		180.0 °C / 356.0 °F

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OE PERFORMANCES	
AUDI	61-0-0257, TL-774 F = G 12+, VW TL-774 D = G 12
CUMMINS	32-9011, IS series & N14
DAF	74002
DETROIT DIESEL	Power Cool Plus
DEUTZ	0199-99-1115 (2) (5), 0199-99-2091 (4) (8)
FORD	WSS M97 B44 D
GENERAL MOTORS	QL 130100, GM 6277M (+B040 1065)
JAGUAR	CMR 8229, WSS M97 B44 D
JOHN DEERE	JDM H5
KOMATSU	07.892 (2007)
LAND ROVER	CMR 8229
LEYLAND	DW03245403
LIEBHERR	MD1-36-130
MACK	014 GS 17009, 128 6083 / 002
MAN	D36 5600, 324 typ SNF
MAZDA	MEZ MN 121 D
MERCEDES-BENZ	MB 325.3
MINI	JQ07913-014
MTU	MTU MTL 5048
MWM	0199-99-2091 (4) (8)
NISSAN	41-01-001/--S Type D, Renault 41-01-001/--S Type D
OPEL	GM 6277M (+B040 1065)
PACCAR	DW03245403
RENAULT	014 GS 17009, 128 6083 / 002, 41-01-001/--S Type D, Renault 41-01-001/--S Type D
SAAB	GM 6277M (+B040 1065)
SEAT	TL-774 F = G 12+, VW/SEAT VW TL-774 D = G 12
SKODA	TL-774 D = G12, TL-774 D = G 12, TL-774 F = G 12+
TATA	CMR 8229, WSS M97 B44 D
VAUXHALL	GM 6277M (+B040 1065)
VOLVO	014 GS 17009, 128 6083 / 002, 41-01-001/--S Type D
VW	AUDI VW TL-774 D = G 12, SEAT VW/SEAT VW TL-774 D = G 12, G12, G12+, TL-774 D, TL-774 D = G 12, TL-774 F = G 12+
VW/SEAT	SEAT VW/SEAT VW TL-774 D = G 12
WÄRTSILÄ	SACM DIESEL DLP799861
PRODUCTS	
MAK	A4.05.09.01
MTU	MTU MTL 5048
ULSTEIN BERGEN	2.13.01

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. Made in FRANCE
MOTUL - 119 Bd Félix Faure - 93303 - AUBERVILLIERS CEDEX - BP 94 - Tel: 33 1 48 11 70 00 - Fax: 33 1 48 33 28 79 - www.motul.com

