



INUGEL EXPERT ULTRA

Pure condensed anti freeze

Anti-corrosion and anti freeze

Nitrite free / Amine free / Phosphate free

TYPE OF USE

MOTUL INUGEL EXPERT ULTRA is a pure condensed anti freeze that should be mixed with soft water for immediate use as a coolant liquid, based on monoethyleneglycol, using an organic / non organic mix technology, named hybrid additives. This product can be mixed with all monoethyleneglycol based coolants.

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.

Protects the cooling system from freezing and metallic parts from corrosion.

Provides an excellent thermal exchange and then engine cooling efficiency.

Both silicates and organic acids provide anti-corrosion properties that remain while ageing.

Seals, durits 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 50 ppm.

Drain intervals : Refer to the manufacturers' recommendation.

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

PROPERTIES

Nitrite free, amine free, phosphate free.

Color	Visual	Dark Blue Green
Density at 20°C/68°F	ASTM D4052	1.125
Boiling Temperature	ASTM D1120	174°C/345°F
Alkalinity Reserve	ASTM D1121	16 mg KOH/g
Sulfated ashes	ASTM D1119	1.3% weight

MOTUL INUGEL EXPERT ULTRA

OEM Group	OEM	Spec
BMW	BMW	N 600 69.0
Cummins	Cummins	85T8-2
Daimler-Chrysler	Chrysler	MS-7170
Daimler-Chrysler	Mercedes-Benz	325.0/325.2
Fiat	Fiat - Lancia	NC 956-16
Fiat	Iveco	55523/1
Fiat	Iveco	18-1830
Ford	Ford	ESD-M97B49-A
General Motors	Opel - GM	QL 130100
General Motors	Saab	6901 599
JL Case	JL Case	JIC-501
Lada	Lada/Avtovaz	TTM VAZ 1.97.717-97
Leyland-DAF	DAF	DW03245403
MAN	MAN/Steyr	324 Typ NF / MAN 324
MTU	MTU	MTL 5048
Perkins	Perkins	
Porsche	Porsche	TL-VW 774 C = G 11
Rover	Landrover/Rover	
Volvo	Volvo	128 6083 / 002
VW	VAG Group	TL-VW 774 C = G 11
ASTM Standards		ASTM D3306/D4656/D4985
British Standards		BS 6580
French Standards		NFR 15-601
FVV Standards	Germany	FVV Heft R443
Japanese Standards		JASO M325 / JIS K2234
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
MIL Standards	MIL-Norway	FS 6850-0951
MIL Standards	MIL-Sweden	FSD 8704
NATO Standards		NATO S-759
SAE Standards		SAE J1034
Swiss Fed. Lab		Empa

RECOMMENDATIONS

PROTECTION		INUGEL EXPERT ULTRA
T°C / T°F	T°C / T°F*	%
-22°C / -8°F	132°C / 269°F	33%
-30°C / -22°F	134°C / 273°F	40%
-41°C / -42°F	136°C / 277°F	50%
-54°C / -65°F	139°C / 282°F	60%

* +1,5 Bar