



# INUGEL EXPERT ULTRA

**Concentrated antifreeze**

**Anti-corrosion and antifreeze**

**Nitrite free / Amine free / Phosphate free**

## **TYPE OF USE**

MOTUL INUGEL EXPERT ULTRA is a concentrated antifreeze 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 therefore improves engine cooling efficiency.  
Both silicates and organic acids provide anti-corrosion properties that remain while aging.  
Seals, hoses, pipes 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           | Specification          |
|--------------------|---------------|------------------------|
| BMW                | BMW           | GS 9400                |
| Cummins            | Cummins       | 85T8-2                 |
| Daimler            | Chrysler      | MS-7170                |
| Daimler            | Mercedes-Benz | MB 325.0               |
| Daimler            | Mercedes-Benz | MB 325.2               |
| Fiat               | Fiat-Lancia   | Fiat 9.55523           |
| Fiat               | Iveco         | Iveco standard 18-1830 |
| Ford               | Ford          | ESD-M97B49-A           |
| Ford               | Volvo Cars    | 128 6083 / 002         |
| General Motors     | Opel - GM     | QL 130100              |
| General Motors     | Saab          | 6901 599               |
| JI Case            | JI Case       | JIC-501                |
| Lada               | Lada/Avtovaz  | TTM VAZ 1.97.717-97    |
| MAN                | MAN           | 324 typ NF             |
| MTU                | MTU           | MTL 5048               |
| Porsche            | Porsche       | TL-774 C = G 11        |
| Volvo AB           | Volvo Trucks  | 128 6083 / 002         |
| VW (VAG)           | Audi          | TL-774 C = G 11        |
| VW (VAG)           | Seat          | TL-774 C = G 11        |
| VW (VAG)           | Skoda         | TL-774 C = G 11        |
| VW (VAG)           | Volkswagen    | TL-774 C = G 11        |
| ASTM Standards     |               | ASTM D3306 / D4656     |
| British Standards  |               | BS 6580                |
| French Standards   |               | NFR 15-601             |
| FVV Standards      | Germany       | FVV Heft R443          |
| Japanese Standards |               | JASO M325              |
| Japanese Standards |               | 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

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

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