



Product Information:

ULTRALIFE 4

LONG LIFE ORGANIC ACID TECHNOLOGY

ANTIFREEZE COOLANT

Description

Ultralife 4 is a heavy duty, versatile antifreeze/coolant that provides long-life corrosion protection for all engine metals, including aluminium and ferrous alloys.

The coolant has been field tested and has proven to provide the following periods of protection:

- **650,000 km** (ca. 8,000 hours) in truck & bus-application or
- **250,000 km** (ca. 2,000 hours) for passenger cars or
- **32,000 hours** (or 6 years) for stationary engines.

It is recommended to change the coolant every five years or when above mileages or operating times are reached, whichever comes first.

Ultralife 4 provides long-life protection against all forms of *corrosion* by the use of optimised and patented organic corrosion inhibitors. This product does not contain nitrates, nitrites, amines, borates or silicates. Excellent and lasting high temperature corrosion protection is provided for the aluminium heat transfer surfaces contained in modern engines. Furthermore, Ultralife 4 offers excellent cavitation protection.

Features and Benefits

- Extended life
- Improved heat transfer
- Reduces repairs to thermostat, radiator and water pump
- Improved hard water stability, absence of silicates and phosphates
- Save time and money maintenance-free coolant
- Suitable for mixed fleets, one coolant for automotive and heavy duty applications
- Environmentally friendly by using carboxylic additives

Applications

Ultralife 4 may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys.

Solution % Vol.	Freezing Point °C
33	-20
50	-40

(For guidance purposes. Slight variations may occur from batch to batch)



Performance Levels

ASTM D3306, D4656, D4985, D6210
 BS6580
 JIS K2234-2006 Class II: LLC (Japanese Standard)
 SAE J1034
 KS M 2142 (Korean Standard)
 Ford WSS-M97B44-D
 Mercedes-Benz 325.3
 General Motors GM 6277M
 MAN 324 type SNF
 Volkswagen TL 774F
 CNH MAT3624
 Caterpillar GCM34, MWM 0199-99-2091/12
 Cummins 85T8-2, IS Series u N14, CES I4603, CES I44439
 MB 325.3, 326.3
 Detroit DFS93K217
 Deutz DQC CB-14
 Fiat / Lancia 9,55513
 GE Jenbacher TA 1000-0200
 GE Waukesha
 Liebherr MDI-36-130
 Mahle Behr
 Mazda MEZ MN 121D
 Paccar DAF 74002
 Paccar Leyland Trucks DW03245403
 Renault Nissan 41-01-001/- -S Type D
 Rolls Royce Power Systems MTU MTL 5048
 Rolls Royce Power Systems Bergen 2.13.01
 Suzuki Santana
 Tata Motors JLR CMR 8229, STJLR 651.5003
 Tedom
 Thermo King

Van Hool
 Volvo Mack 014 GS 17009
 Volvo Renault Trucks 41-01-001/-, -S Type D
 VW TL-774 D, TL-774 F, Skoda 61-0-0257
 VW MAN 324 Typ SNF, Diesel and Turbo SE
 VW MAN B&W AG D36 5600, B&W A/S
 Wartsila SACM Diesel DLP79986 I
 Wartsila 32-901 I
 Yanmar

Also suitable for use in:

AGCO Fendt
 AGCO Valtra
 Aston Martin
 Perkins
 Claas
 GM Chevrolet, Saturn
 GM Saab B 040 1065
 Great Wall Motor Co. Ltd.
 Hitachi
 Isuzu
 Irisbus Karosa
 John Deere JDM H5
 Kobelco
 Komatsu 07.892 (2009)
 Mitsubishi Heavy Industry
 PSA Opel-Vauxhall GMW 3420
 Volvo AB Penta
 Volvo Construction / Trucks
 VW Semt Pielstick

Physical Characteristics

Colour (Visual)	Fluorescent Orange
Ethylene glycol, % w/w	93 min.
Other glycols, % w/w	0.5 max.
Inhibitor content, % w/w	5
Water content, ASTM D1123, % w/w	5
Ash content, ASTM D1119, % w/w	1.1 typ.
Nitrate, nitrite, amine, borate, silicate	nil
Specific gravity, ASTM D5931, 15°C	1.116 typ.
Specific gravity, ASTM D5931, 20°C	1.113 typ.
Equilibrium boiling point, ASTM D1120, °C	180 typ.
Reserve alkalinity (pH 5.5), ASTM D1121	6.2 typ.
pH, ASTM D1287, 20°C	8.6 typ.
Refractive Index, ASTM D1218, 20°C	1.430 typ.

Above figures based on average production values.

Part No.s: ULM020, ULM205

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