



Product Information:

ULTRALIFE 3

HYBRID ORGANIC ACID TECHNOLOGY (PSi-OAT) ANTIFREEZE COOLANT CONCENTRATE

Description

Ultralife 3 is a versatile and multifunctional antifreeze coolant providing enhanced hard water and oxidation stability. This ethylene glycol based coolant incorporates silicate inhibitor technology re-enforced with Phosphates that compliment the Organic Acid Technology backbone. Ultralife 3 provides long-life protection against all forms of corrosion by the use of optimised and patented organic corrosion inhibitors. Excellent and lasting high temperature corrosion protection is provided for the aluminium heat transfer surfaces contained in modern engines. Furthermore, Ultralife 3 offers excellent cavitation protection.

Features and Benefits

- Extended life
- Replaces former Si-OAT generation coolants
- Replaces former hybrid Si-OAT generation coolants containing borate, molybdate and nitrate.
- Advanced flux compatibility
- Improved heat transfer
- Outstanding aluminium protection
- Improved hard water stability
- Free from nitrites, borates, amines and 2-ethylhexanoic acid
- Save time and money maintenance-free coolant

Applications

Ultralife 3 can be used in internal combustion engines (ICEs), hybrids and the indirect cooling systems of battery electric vehicles (BEVs) where any of the specifications listed below are demanded by the equipment manufacturer.

Solution % Vol.	Freezing Point °C
33	-20
50	-37

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

Performance Levels

Meets the following standards:	Suitable for use in /meets the requirements of:	
ASTM D3306 JIS K2234:2018 FVV R 530:2005 BS6580:2010* Ö-Norm ¹ * GB 29743:2013* AFNOR 15-601	Passenger Car BMW LC 87, LC97, LC18 Alfa Romeo, Fiat, Lancia 9.55523 Chrysler MS7170 Opel/Vauxhall GME L1301 VW G12 EVO (TL 774-L) MB 325.5 Ford ESD-M97B49-A Volvo Cars 128 6083/002 Toyota 1WW/2WW Engines	Heavy Duty Diesel MAN 324NF, MAN 324 Si-OAT MWM 0199-99-2091/12 Iveco Standard 18-1830 Cummins 85T8-2 MB 325.5 Deutz DQC CA-14 JI Case JIC-501 MTU/Rolls Royce MTL 5048 Scania TB 1451

¹except for RA, *modified





MORRIS
LUBRICANTS

Physical Characteristics

Colour (Visual)	Blue/Green
Ethylene glycol, % w/w	91 min.
Other glycols, % w/w	1 max.
Inhibitor content, % w/w	4.5 typ.
Water content, ASTM D1123, % w/w	4 max.
Ash content, ASTM D1119, % w/w	4.5 max..
Nitrite, amine, borate, 2EHA	nil
Specific gravity, ASTM D5931, 15°C	1.123 typ.
Density, ASTM D1122, 20°C	1.120 typ.
Equilibrium boiling point, ASTM D1120, °C	163 min.
Reserve alkalinity (pH 5.5), ASTM D1121	9.1 min.
pH, ASTM D1287, 20°C	8.5 typ.
Refractive Index, ASTM D1218, 20°C	1.432 typ.

Above figures based on average production values.



Part No.s: UTH005, UTH020, UTH205

(TDS Ultralife 3 – 310124 Issue 2)

