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

[1] *except for RA, *modified*

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.