

LSA COOLANT CONCENTRATE LONG-LIFE

LSA COOLANT CONCENTRATE LONG-LIFE is an ethylene glycol based anti-freeze, anti-boil coolant concentrate (contains 1045 g/litre 93% ethylene glycol) incorporating an advanced formula technology with virtually non-depleting organic acid technology (OAT) corrosion inhibitors. It is silicate free and recommended as coolant for use in ferrous and aluminium alloy petrol powered automotive engines, light and heavy duty diesel, natural gas, mobile and stationary engines.

LSA COOLANT CONCENTRATE LONG-LIFE is compatible with aluminium, copper and brass cooling systems.

With the combination of organic carboxylate inhibitors gives excellent protection against cast iron cylinder liner and block pitting and cavitation, corrosion/erosion.

It lasts up to 3 times longer than conventional coolants, and reduces coolant cost up to 60%.

LSA COOLANT CONCENTRATE LONG-LIFE whilst compatible with hard water the use of soft or de-mineralised water is preferable to minimize scale deposits. It should be diluted at 33% to 50% by volume, according to engine manufacturer recommendations.

LSA COOLANT CONCENTRATE LONG-LIFE contains ethylene glycol and is poisonous if swallowed.

Meets or is suitable for the performance requirements of the following engine coolant specifications.

AS 2108.1:2004 Type A
ASTM D 3306 & D 4985
ASTM D 6210-10,
SAE J1034, J1941
Audi/SEAT/Skoda
BMW N600 69.D
BR 637
BS 6580 (British Standard)
Caterpillar
Cummins
DAF-Leyland 74001, 74002

Daihatsu
Daimler Chrysler MS 7170, MS 9769
Detroit Diesel 7SE 298, 93K217
Ford ESE-M97B18-C (heavy duty tractor & diesel)
Ford ESE-M97B44-A (automotive)
Ford WSS-M97B44-D
General Motors GM 1825M, 1899M, 6277M
General Motors Holden HN 2217
Honda
Hyundai
Isuzu
JASO M325 (Japan) LLC
JIS K2234 (Japan) LLC
Komatsu
Mack-RVI
MAN Diesel 324
Mazda MES 121C
Mercedes-Benz 325.0, 325.3, 310.1
Mitsubishi
NATO S-757
Navistar
Nissan NES 5059 LLC
Saab FSD 8704
Saab-Scania 6901
Scania
Subaru
Toyota
Volkswagon VW TL 774D
Volvo (UK), Heavy Truck, VCS

ADVANTAGES

- Recommended for passenger car & light duty commercial vehicles for 5 years or 200,000kms at 33% v/v, and heavy duty engines for 1,000,000kms, 12000hrs or 6 years at 50% v/v, whichever comes first, when good quality water is used.
- Silicate free promoting optimum operating life and reliability of water pumps.
- Maximises protection of all metals commonly found in the engine cooling systems.
- Excellent protection from cavitation, liner pitting, rust, scale and deposit formation.

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(continued)

- Keeps engines at optimum operating temperatures contributing to improved fuel economy.
- Formulated, tested and manufactured in Australia for Australian conditions.

It is the responsibility of the end user to use this product in accordance with engine manufacturer recommendations.

TYPICAL CHARACTERISTICS

Properties	Test	Value
Colour		Flourescent Green
pH (50% in distilled water)	ASTM D1287	8.3 – 9.0
Reserve Alkalinity, ml (ph5.5)	ASTM D1121	4
Specific Gravity @ 20°C	ASTM D1122	1.113 min
Boiling Point (non diluted)	ASTM D1120	Max 170°C
Freeze Point (50% v/v)	ASTM D1177	Min -37 °C
Freeze Point (33% v/v)	ASTM D1177	Min -18 °C
Foaming Properties – Volume (ml)	ASTM D1881	45 max
Foaming Properties – Break time (sec) (5 min boiling)	ASTM D1881	5 max
Flash Point (open cup)	ASTM D92	120 °C
Ash content (% weight)	ASTM D1119	0.82
Total Glycol Content		Min 93.4% vol
Bittering Agent - ppm		10
Chloride		< 10 ppm
Corrosion	ASTM D3305	Passes Test
Odour		Slight
Effect on Paint & Organic Materials		None
Amines, Borates, Nitrates, Phosphates, Silicates, Nitrites		None

Package sizes
1000 litre
200 litre
20 litre
4 litre

The information contained herein is accurate at the time of this review. However specifications change from time to time. Ensure specifications meet equipment manufacture requirements.