

## LSA COOLANTS ( Green )

**LSA COOLANT CONCENTRATE** is an ethylene glycol based anti-freeze, anti-boil coolant concentrate 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 automotive engines, light and heavy duty, natural gas, and stationary engines. Dilute to the preferred concentration with distilled or demineralised water.

### LSA COOLANT 50

50% concentration for a maximum service life of 8 years / 1,000,000 kilometres / 12,000 hours; whichever occurs first.

### LSA COOLANT 33

33% concentration for a maximum service life of 6 years / 500,000 kilometres / 6,000 hours; whichever occurs first.

### FEATURES

Protection against corrosion of alloys and ferrous metals.  
Protection against freezing 50% concentrate preferred.  
Protection against corrosion caused by cavitation.  
Lubrication of the water pump.

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

AS 2108.1:2004 Type A	General Motors GM 1825M, 1899M, 6277M
ASTM D 3306 & D 4985	General Motors Holden HN 2217
ASTM D 6210-10,	JASO M325 (Japan)
Audi/SEAT/Skoda	JIS K2234 (Japan)
BS 6580 (British Standard)	Mack ASTM D4985 Heavy Truck
Caterpillar EC 1	MAN Diesel 324
Cummins SB 3666132, CES 14603	Mercedes-Benz 325.0, 326 (50% only)
Daimler Chrysler MS 7170, MS 9769	Navistar
Detroit Diesel 7SE 298, 93K217	Saab-Scania 6901
Ford ESE-M97B18-C (heavy duty tractor & diesel)	Volkswagon VW TL 774D
Ford ESE-M97B44-A (automotive)	VolvoTruck, from 2005
Ford WSS-M97B51-A1	

### SAFETY

LSA coolants contain Ethylene Glycol and poisonous if swallowed.  
Avoid contact with eyes and skin.  
Keep out of the reach of children.  
Reseal the container after use.  
For further particulars refer to safety data sheet.

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### TYPICAL CHARACTERISTICS

Properties	Test	Coolant Concentrate	Coolant 50	Coolant 33
Colour		Fluorescent Green	Fluorescent Green	Fluorescent Green
PH	ASTM D1287	8.3 – 9.0	8 – 8.7	7.7 – 8
Specific Gravity @ 20°C	ASTM D1122	1.12	1.07	1.046
Boiling Point (non diluted)	ASTM D1120	175°C		
Freezing Point	ASTM D1177	-12 °C	-37 °C	-18°C
Foaming Properties – Volume (ml)	ASTM D1881	45 Max	50 Max	50 Max
Foaming Properties – Break time (sec) (5 min boiling)	ASTM D1881	5 Max	5 Max	5 Max
Flash Point (open cup)	ASTM D92	120 °C	118 °C	115 °C
Ash content % weight	ASTM D1119	0.82	0.4	0.3
Glycol Content % volume		93	46	31
Bittering Agent - ppm		10	5	3
Chloride		< 10 ppm	< 10 ppm	< 10 ppm
Corrosion	ASTM D3305	Passes Test	Passes Test	Passes Test
Odour		Slight	Slight	Slight
Effect on Paint & Organic Materials		None	None	None
Amines, Borates, Nitrates, Phosphates, Silicates, Nitrites		None	None	None
Package sizes		1000L 200L 20L	1000L 200L 20L	1000L 200L 20L 4L