

## LSA COOLANT ELC CONCENTRATE

**LSA COOLANT ELC CONCENTRATE** is an extended life 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 and inorganic corrosion inhibitors (Organic Additive Technology - OAT). It is silicate free and recommended as coolant for use in ferrous and aluminium alloy petrol powered automotive engines, natural gas, heavy duty US, European and Japanese diesel mobile and stationary engines.

**LSA COOLANT ELC CONCENTRATE** gives maximum protection to aluminium, copper, brass, steel, cast iron and solder in cooling systems.

With the combination of organic mono and dicarboxylate 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%. 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.

**LSA COOLANT ELC CONCENTRATE** 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 ELC CONCENTRATE 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 (and D4656)  
ASTM D 4985 (and D5345)

ASTM D 6210  
SAE J1034  
Audi/SEAT/Skoda  
BMW N600 69.0  
BR 637  
BS 6580 (British Standard)  
BT-PS-606A (MIL Belgium)  
Caterpillar EC-1  
Cummins 90 T8 4  
DAF-Leyland 74001, 74002  
Daihatsu  
DCEA 615 (MIL France)  
Detroit Diesel  
E/L-1415b (MIL Italy)  
Ford WSS-M97B44-C  
FVV Heft R443 (Germany)  
FSD A-A-870A (MIL Sweden)  
General Motors GM 1899M, 6277M  
Honda  
Hyundai  
Isuzu  
JASO M325 (Japan) LLC  
JIS K2234 (Japan) LLC  
John Deere JDM HD 24  
Komatsu  
Mack – RVI  
MAN 324  
Massey Ferguson  
Mazda MES MN 121C  
Mercedes-Benz DBL 325.3  
Mitsubishi ES-X64216  
MTU  
NATO S-757  
Navistar  
Perkins  
Renault Type D & P  
Saab  
Scania (TI 02-98)  
Subaru  
Toyota TS K2601 G  
UNE 26-361-88/1  
Volvo Heavy Truck  
VW TL 774D

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(continued)

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

### TYPICAL CHARACTERISTICS

Properties	Test	Value
Colour		Red
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	1.113min
Boiling Point (non diluted)	ASTM D1120	Max 170°C
Boiling Point (50% solution)		Max 130°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	ASTM D92	120 °C
Ash content (% weight)	ASTM D1119	0.82
Total Glycol Content		Min 93.4%
Chloride		< 10 ppm
Corrosion	ASTM D3305	Passes Test
Odour		Slight
Nitrite (50% solution)		> 500 ppm
Tolyltriazole (50% solution)		> 900 ppm
Effect on Paint & Organic Materials		None
Amines, Borates, Nitrates, Phosphates, Silicates		None

**Package Sizes**      **200 litre (Steel Drums)**  
                                 **20 litre (Plastic Drums)**