



PRODUCT INFORMATION

LONG-LIFE COOLANT

(CODE: 7092)

Description

Royal Lubricants Long-Life Coolant is a universal ethylene glycol based antifreeze coolant concentrate (contains 1060 g/litre ethylene glycol) incorporating an advanced formula technology with virtually non-depleting organic acid corrosion inhibitors. The product is dyed a green colour for ready identification.

Summary of benefits

- Long-Life Coolant is silicate free for improved pump life and contains no environmentally harmful nitrates, borates, phosphates, amines or nitrites.
 - Long-Life Coolant is compatible with conventional coolants and can be used for top-up of conventional coolants. If the product is to be mixed with some heavy duty diesel coolants the user must continue to add SCA's for heavy-duty service until the next coolant change-out.
 - Recommended as coolant for use in both aluminium alloy petrol powered automotive engines and in heavy duty diesel and natural gas mobile and stationary engines.
 - Provided the correct dosage of Long-Life Coolant is maintained, flush and change passenger car/light duty commercial vehicle cooling system contents every 5 years or 250,000 kms. For heavy-duty engines, Long-Life Coolant more than doubles the life of conventional coolants to 500,000 km or 6,000 hours or 5 years at the same time providing excellent protection against cylinder liner cavitation corrosion-erosion.
 - Long-Life Coolant can be used in most OEM diesel, petrol and natural gas engines allowing one coolant to be inventoried. The product lasts up to 3 times as long as conventional coolants.
 - Reduces engine coolant cost up to 60% over conventional coolants.
 - Service life up to 12,000 hours for machines/commercial engines or 6 years whichever comes first, when topped up with a once only coolant extender at the end of its initial service life.
 - For automotive engines, drain at 250,000 kms or 5 years whichever comes first..
 - Hard water deposits and scale from silicate drop out etc. in the cooling system are practically eliminated.
 - The low level of total dissolved solids improves water pump seal life and prevents gel formation.
 - Excellent heat transfer and superior aluminium protection at high operating temperatures.
 - The combination of organic carboxylate inhibitors offers excellent protection against cast iron cylinder liner and block pitting and cavitation corrosion-erosion.
 - Long-Life Coolant is recommended for all heavy duty engines manufactured by Cummins, Caterpillar, Detroit Diesel, Mack-RVI, Mercedes Benz, Scania, MTU, Komatsu and other OEM's.
-

Royal Precision Lubricants
PO Box 642
Moorabbin Vic 3189
Telephone: (03) 9553 0840
Fax: (03) 9553 0843
E-mail: info@royallubricants.com.au



PRODUCT INFORMATION

Specifications

Long Life Coolant is recommended where the following performance levels are cited:

ASTM D3306 (and D4656)	MAN 324 (Diesel Engines)	JIS K2234 (Japan) LLC	General Motors GM 1899M
ASTM D4985 (and D5345)	VOLVO	JASO M325 (Japan) LLC	Ford WSS-M97B44-C
ASTM D6210	Scania (Tech Info. TI 02-98)	Afinor R15-601	Volkswagen VW TL774D
BS 6580 (British Standard)	Mercedes-Benz Sheet 325.3	Önorm V5123	Audi/SEAT/Skoda
UNE 26-361-88/1	Mack-RVI	BR 637	ISUZU
FVV Heft R443 (Germany)	Caterpillar EC-1	DCEA 615 (MIL-France)	BMW N600 69.0
NATO S-757	Cummins 90 T8-4	FSD 8704 (MIL-Sweden)	SAAB
BT-PS-606A (MIL-Belgium)	Detroit Diesel/Perkins	AS/NZS 2108.1:1997 (Aus Standard) Type A	DAF-Leyland 74001
E/L-1415b (MIL-Italy)	Komatsu	Navistar	Mazda MES 121C
SAE J1034	General Motors GM 6277M	Mitsubishi ES-X64216	Toyota TS K2601 G
Honda	Daihatsu		

Storage

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

Health, Safety and Environment

Health and safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Royal Precision Lubricants on (03) 9553-0840.

Typical characteristics

Colour	Green
pH 33% solution	8.3
Ethylene Glycol content, wt%, typ	93.0
Reserve Alkalinity, ml (pH 5.5)	5
Density, g/ml, 20 °C	1.113
Boiling Point, °C	172
Freezing Point, °C Max. (50 vol% solution)	< - 37

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute a legal liability.

Royal Precision Lubricants
PO Box 642
Moorabbin Vic 3189
Telephone: (03) 9553 0840
Fax: (03) 9553 0843
E-mail: info@royallubricants.com.au