

PREMIUM GREEN LONG LIFE GREEN COOLANT CONCENTRATE

Premium Green Long Life Coolant Concentrate is a unique blend of organic long life corrosion inhibitors and ethylene glycol designed to provide superior corrosion protection and anti-freeze/anti-boil protection for all types of petrol, diesel and gas engines in light commercial and passenger vehicles, heavy duty commercial, industrial, on highway, marine, mining and stationary applications.

Performance Features

- **Extends** the period between changing coolant
- **Passenger vehicles** and **light commercial** transporters – 250,000kms / 5 years (whichever comes first).
- **Heavy duty vehicles** – 1,000,000km / 6 years / 12,000 hrs (product is used as directed)
- **Provides maximum** anti-freeze/anti-boil protection.
- Minimal disposal volume of spent coolant required.
- Provides optimum reliability and operating life of water pump (silicate free product).
- **Maximises protection** of all metals commonly found in the engine cooling system.
- Excellent cavitation and liner pitting protection.
- **Maximises fuel economy** by keeping the engine at the optimum operating temperature.
- **Protects** against scale, rust and residue build-up.
- Formulated tested and manufactured in Australia for Australian conditions.



Principle Uses

Premium Green Long Life Coolant Concentrate can be used on-road and stationary petrol, diesel and gas fuelled engines, including passenger and light commercial vehicles, buses, tractors, trucks, also marine engines, mining equipment and stationary engines.

PREMIUM GREEN LONG LIFE

GREEN COOLANT CONCENTRATE

Manufacturer's Specification

Premium Green Long Life Coolant Concentrate meets and/or exceeds the following OEM performance specifications:

- | | | |
|------------------------------|------------------------------|--------------------------|
| • ASTM D3306 (and D4656) | MAN 324 (Diesel Engines) | BT-PS-606A (MIL-Belgium) |
| • ASTM D4985 (and D5345) | VOLVO | Detroit Diesel/Perkins |
| • ASTM D6210 | Scania (Tech Info. TI 02-98) | E/L-1415b (MIL-Italy) |
| • BS 6580 (British Standard) | Mercedes-Benz Sheet 325.3 | Komatsu |
| • UNE 26-361-88/1 | Mack-RVI | SAE J1034 |
| • FVV Heft R443 (Germany) | Caterpillar EC-1 | General Motors GM 6277M |
| • NATO S-757 | Cummins 90 T8-4 | General Motors GM 1899M |
| • JIS K2234 (Japan) LLC | JASO M325 (Japan) LLC | Ford WSS-M97B44-C |
| • BR 637 | Volkswagen VW TL774D | DCEA 615 (MIL-France) |
| • FSD 8704 (MIL-Sweden) | Audi/SEAT/Skoda | ISUZU |
| • AS/NZS 2108 - 2004 Type A | Daihatsu | BMW N600 69.0 |
| • Subaru | Honda | Mazda MES 121C |
| • Hyundai | Toyota TS K2601 G | Mitsubishi ES-X64216 |
| • Navistar | SAAB | DAF-Leyland 74001 |

*Check owners' manual before use

Instructions for Use

Before treatment, pre-clean the following System

- Draining the existing coolant and chemically clean the system to remove any rust, dirt, oil and residue.
- Use a Radiator Treatment to clean the system effectively and thoroughly.

Special Instruction

Initial Dosage:

- **Premium Green Long Life Coolant Concentrate** can be dosed 33% or 50% v/v with clean demineralised water.
The dosage will depend on freeze protection required or engine manufacturer's recommendation.

Anti-freeze/Anti-boil Protection

o Dose	Water	Min Temp	Max Temp
1 part	1 part 50%	-37°C	129°C
1 part	2 parts 33%	19°C	-125°C

Preventative Maintenance:

- Never top up with water as this will dilute the coolant. Always top up with **Premium Green Long Life Coolant Concentrate** Coolant mixed with clean, soft water as directed.

Passenger Vehicles:

- There is no requirement to replenish inhibitor during the life of the coolant. Coolant should be drained and replaced **within 5 years** or more often in adverse conditions

Heavy duty diesel vehicles:

- These vehicles do not require the coolant to be re-dosed at regular intervals or replacement of expensive water filters. Performance period is **1,000,000kms / 12,000 hours or 6 years**, whichever comes first. Top up with **Premium Green Long Life Coolant Concentrate** mixed as described above if fluid is lost.
- Pennarol recommends that this product **does not get mixed** with other brands of coolants or inhibitors.
- Consult your Pennarol representative if clarification is required.

Typical Properties

Test	Result
Colour	Green
Ph 33% solution	8.3-9 Max
Density, g/ml 20 °C	1.10 Min.
Reserve Alkalinity, ml (Ph 5.5)	4
Ethylene Glycol Content wt.%	94 Min.
Boiling Point	170°C min.
Freezing Point @ 50% Solution	< - 37

Note: Pennarol Green Coolant Concentrate may be unsuitable for use in some vehicles, always consult owners' manual if in doubt

Storage

Premium Green Long Life Coolant Concentrate should be stored in airtight containers at a maximum temperature of 30°C. In warm climates containers should not be stored outside in direct sunlight. It can be stored in mild steel lacquer lined or HDPE containers. Galvanised containers and handling equipment should be avoided