

# Any Engine, Anywhere

The Global Benchmark in Coolant Technology

Life of Engine (no extender)  
1.5 million kms / 6 years



**PG Platinum™ is a propylene glycol based premixed coolant which uses organic additive technology (OAT) to provide long lasting protection against corrosion and liner pitting (cavitation) and is compatible with the different elastomeric seals, gaskets, plastics and metal alloys used by OEM heavy duty engine manufacturers.**

PG Platinum is BNAPS free (contains no Borate, Nitrite, Amine, Phosphate or Silicate) and is designed as a 'life of the engine' coolant when used as a complete fill in a well maintained and monitored cooling system.

Note <sup>(1)</sup> On highway: 'life of the engine', 6 years or 1.5 million kms (e.g. long haul heavy duty class 8 truck)

Off highway: 'life of the engine', 6 years or:

e.g. Mining haul truck;  
(high load %): 2500hp / 35% load factor = 26,000 hrs  
(medium load %): 2500hp / 25% load factor = 36,000 hrs

e.g. Mining excavator;  
(high load %): 1875hp / 70% load factor = 17,000 hrs  
(medium load %): 1875hp / 60% load factor = 20,000 hrs

*Whichever occurs first shall apply.*

For the customer this means greater savings because of the longer life expectancy of the coolant and simplified servicing and maintenance, keeping both time and labour costs down.

## Which engine cooling systems can I use PG Platinum in?

PG Platinum recommended for all diesel, petrol, LPG and natural gas engines, and can be used in all categories of vehicles/ engines right across your fleet: from heavy duty on- and off-road applications and on-site service trucks, through to medium and light duty engines, 4WD's, utes and passenger cars. One coolant, PG Platinum, will suit all applications.

## What colour is PG Platinum?

PG Platinum is red, which follows global conventions for OAT coolant.

## Why use Propylene Glycol?

Propylene Glycol is not a scheduled poison or Dangerous Good, it is Non-Hazardous and is Biodegradable. It is a safer alternative than ethylene glycol whilst offering similar fluid properties when formulated as a premixed coolant.

## What is OAT?

OAT is Organic Additive Technology, sometimes also referred to as Organic Acid Technology. These are the long lasting organic carboxylic acids that have been neutralised and formulated to provide pH buffering as well as corrosion and wet cylinder liner cavitation protection. Extended Life Coolants (ELC) is one such category of long/extended life coolants that use OAT.



### What does BNAPS free mean?

PG Platinum is a BNAPS free coolant which means it contains no Borates, Nitrites, Amines, Phosphates, or Silicates. OEM's in different regions of the world now specify coolant that is formulated without some, or any, of the BNAPS due to environmental, health, performance or service life concerns. Platinum formulation eliminates these issues.

### Is PG Platinum safe for silicon seals?

**Yes.** Unlike many coolants PG Platinum does NOT contain 2-ethylhexanoic acid (2-EH) which can cause silicone hoses, seals and gaskets to lose their flexibility and elasticity which may ultimately lead to coolant leaks.

### How long does PG Platinum last?

PG Platinum, when properly maintained and monitored, provides 'life of the engine'<sup>(1)</sup>, 6 years, or 1.5 million km's service for on-highway applications (eg. heavy duty class 8 truck), or 'life of the engine' or 6 years' service for off-highway & mining applications<sup>(1)</sup>, depending on engine load factors and frequency of operation. Whichever occurs first shall apply.

We strongly recommend regular condemnation testing (ie. pH, glycol degradation products, sulphate, chloride and visible contamination) to ensure that the cooling system remains in good order and condition. We have a range of Fleetguard products and services to assist in regular monitoring and maintenance.

### How often do I maintain PG Platinum?

Maintain PG Platinum according to your regular engine maintenance (test) schedule. As a guide testing should be conducted at least every 12 months, 250,000 kms or 4,000 hours, or more often if coolant condition (e.g. dilution or contamination) is suspected of being being compromised.

Typically the fluid appearance and the Fleetguard 4-way Test Kit (CC36089) is all that is needed to check that glycol and additive levels are correct. Some customers may choose to conduct further chemical analysis via a 3rd party tester. When the PG Platinum concentration and cooling system is well maintained the inhibitors/additives will provide protection for the 'life of the engine' under the harshest of conditions.

### Do I need to use chemical filters or liquid SCA's (supplemental coolant additives)?

**No.** Do not use chemical filters, liquid SCA's or chemical extenders with PG Platinum. Use only non-chemical (blank) filters which will remove damaging particulate matter and keep your cooling system clean.

### How often do I need to change non-chemical filters?

Where OEM chemical free filters are used follow the manufacturer's guidelines. Service recommendations for changing your Fleetguard extended service (ES) non-chemical filters is every 12 months, 250,000 kms or 4,000 hours, or more regularly in dusty environments. Standard service (SS) non-chemical filters should be changed every time the oil filter is changed. Refer to the Fleetguard Coolant & Chemical Catalogue [www.fleetguard.com.au](http://www.fleetguard.com.au).

### How do I test PG Platinum?

The best way to test PG Platinum is to use a refractometer (CC36090) to monitor the Propylene Glycol concentration (calibration point 34.6°Brix) or by using the PG Platinum 4-way Test Kit (CC36089) that checks primary additive levels, pH and glycol content. The test strip includes a nitrite pad which is used to confirm if the coolant has been contaminated with a nitrite containing coolant or chemical filter/SCA/extender. In very dusty environments, such as mining, ensure the coolant is examined for particulate contaminants as its presence can negatively impact on a coolants performance and, as a consequence, its service life.

### What do I do if the nitrite pad changes colour during testing?

This means that the coolant has been contaminated with a nitrite containing coolant or SCA/Chemical filter. You can continue to use the coolant until the next scheduled engine service and then completely drain/flush/re-fill the engine with PG Platinum.

### What sizes does PG Platinum come in?

PG Platinum is available in 5ltr, 10ltr, 20ltr, 208ltr, 1000ltr and Bulk.



### What happens if I mix PG Platinum with other coolants?

Coolant chemistry is highly complex and there are many different technologies on the market. Although PG Platinum tolerates mixing with other coolants we recommend this only as an interim step until the next major engine service at which point the coolant should drained/flushed and re-filled with PG Platinum to ensure maximum protection and full warranty support. Only 100% PG Platinum can give 100% PG Platinum protection.

### Are there any special handling requirements for PG Platinum?

Always use standard safety procedures when handling coolant. Refer to the Material Safety Data Sheet (MSDS) for further information. Refer to [www.fleetguard.com.au](http://www.fleetguard.com.au) and select Resources.

### Changing coolant to PG Platinum?

If there are no visible signs of contamination such as rust, solder bloom, oil etc., all that is required is to start topping off with PG Platinum, however for maximum protection and full warranty support we recommend a water flush and replacement with PG Platinum at the next major service interval. Only 100% PG Platinum can give 100% PG Platinum protection.

### Do I need to chemically clean my cooling system?

- No.** If there are no visible signs of contamination such as rust, solder bloom, oil etc., all that is required is to empty the system and perform a water flush to remove the old coolant, drain, then refill with PG Platinum.
- Yes.** If the system is contaminated then one of the Fleetguard Restore products should be used for cleaning followed by a thorough flush to remove all traces of the cleaner prior to filling with PG Platinum. Fleetguard Restore (CC2610) removes oil and grease. Fleetguard Restore Plus (CC2638) to remove rust, corrosion, scale and solder bloom. Note that the underlying cause of the contamination or problem needs to be investigated and resolved to avoid repeat issues.

### What about bulk storage tanks and service trucks?

Bulk tanks and service trucks need to be drained and cleaned, then filled with PG Platinum. Different coolants should not be mixed in bulk tanks.





# PG PLATINUM

HEAVY DUTY EXTENDED LIFE ENGINE COOLANT

# FAQs

PROTECTING YOU, YOUR ENGINE AND YOUR ENVIRONMENT

## Any Engine, Anywhere.

PG Platinum is designed to be used in any engine in your fleet whether it be for heavy duty engines with wet cylinder liners, for light/med duty engines, or passenger car engines. PG Platinum will protect your asset. The product has been rigorously field tested in both on-highway and off-highway heavy duty applications, is approved by Cummins and exceeds the requirements of internationally recognised ASTM standards for heavy duty and light duty/passenger car coolant:

- CES 14603 - Cummins Heavy Duty coolant standard
- CES 14439 - Cummins Heavy Duty coolant standard (engines: high lead solder and silicone elastomer free)
- CES 14636 - Cummins Light Duty (nitrite free) coolant standard
- ASTM D6210 (Standard for Fully-Formulated Glycol Base Engine Coolant for Heavy- Duty Engines)
- ASTM D3306 (Standard Specification for Glycol Base Engine Coolant for Automobile and Light-Duty Service)

**Manufactured in Australia by Cummins Filtration.**

**For all enquiries regarding PG Platinum, please contact your local Fleetguard stockist or call our customer assistance team on 1800 032 037.**

PG Platinum is fully supported by the Fleetguard Global Warranty<sup>(2)</sup>, it can be used in, but not restricted to, the following OE brands: Case New Holland®, Caterpillar®, Cummins®, DAF®, Detroit Diesel®, Freightliner®, IVECO®, John Deere®, Komatsu®, Liebherr®, MACK®, MAN®, Mercedes, MTU®, Navistar®, PACCAR®, Volvo®, Waukesha®.

***Note (2):** In the unlikely event that a product defect necessitates repair of the engine or components, Cummins Filtration will reimburse reasonable costs to repair or replace, whichever is less, the damaged engine or components. Equipment warranties should not be voided solely due to the use of Cummins Filtration products. Warranty coverage for PG Platinum applies for full fill situations where 100% PG Platinum is being used in the application. Cummins Filtration cannot warrant its chemical products if they are mis-applied or used under improper maintenance practices.*

