



PGPlus®

PREMIUM HEAVY DUTY
ENGINE COOLANT

PREMIX

PGPlus® is a premixed (ready-to-use) fully formulated, propylene glycol, heavy duty that utilises hybrid additive technology to provide superior liner pitting, scale and corrosion protection in heavy duty diesel and gas engines.



Features & Benefits

- Fully formulated coolant – does not require SCA pre-charge
- Extended service life and protection when regularly maintained and serviced
- Provides wet liner pitting, cavitation, corrosion and scale protection
- Provides freeze protection down to -32°C (as the premix)
- Compatible with all other coolants
- Low TDS and silicate levels reduces exposure to water pump seal wear
- Biodegradable, non-hazardous, non-toxic and is safe to handle

Service Life & Maintenance

PGPlus has a service life of 5 years, 1 million km or 20,000 engine operation hours when tested and maintained correctly at recommended service intervals.

Fleetguard recommends using Fleetguard Extended Service (ES) slow release chemical coolant filters to maintain the additive levels in PGPlus. For large systems (>76 L) or if SCA units per litre fall below 0.3, the addition of DCA4 liquid may be required in addition to the water filter. For systems that do not utilise a water filter, DCA4 liquid should be used.

For additional guidance on PGPlus Servicing with water filters and DCA4 liquid refer to:

- Fleetguard Products & Parts Technical Information Catalogue - Section 7: Water Filters (LT32599)
- PGPlus Heavy Duty Engine Coolant and Service Interval Requirements

Available on-line at www.fleetguard.com.au under Resources > Product Literature.

Composition

PGPlus comes pre-mixed with demineralised water and is ready-to-use straight from the container. PGPlus is a low silicate hybrid formula containing a dual buffer system and a full charge of nitrite/molybdate for wet liner protection.

Testing

Dip and read test strips (CC2602M or CC2602AM) – recommended at least 2 times per year:

- determines % glycol /freeze point and nitrite & molybdate additive (SCA) levels

Refractometer (CC2800):

- determines % propylene glycol or freeze point (concentration) with just a drop of coolant.

PROTECTING YOU, YOUR ENGINE AND YOUR ENVIRONMENT

Availability

PGPlus (premix) is factory formulated using deionised water and is ready-to-use. It is ideal for system top-ups and negates the possibility of incorrect mixing.

Also available is PGPlus™ Concentrate which mixes readily with clean, good quality (soft) water 1:1, or if used straight from the container it can be used to economically adjust the glycol level if required.

PGPLUS PREMIX		PGPLUS CONCENTRATE	
5 Ltr	CC2866MA ASJ	4 Ltr	CC2657
10 Ltr	CC2871	20 Ltr	CC2658
20 Ltr	CC2869	208 Ltr	CC2659
208 Ltr	CC2868		
1000 Ltr	CC2867		
20000 Ltr	CC2866		

Technical Specifications

		PGPLUS CONCENTRATE	PGPLUS PREMIX
Colour	Visual	Royal Blue	Royal Blue
Specific Gravity @ 20°C	D1122	1.04 min.	1.03 min.
pH (Undiluted)	D1287	~10.5 (@50% v/v)	~10.5
Reserve Alkalinity (Undiluted)	D1121	~10.5 (@50% v/v)	5.0 min.
Freeze Point, °C (Undiluted)	D1177	-32 max (@50% v/v)	-32 max.
Boiling Point, °C (Undiluted)	D1120	152 min.	105 min. Open System 125 min. Closed System @ 14psi / 95kPa Cap Pressure
Glassware Corrosion Test	D1384	pass	pass
Water Pump Cavitation Test	D2809	pass	pass
Aluminium Corrosion Test	D4340	pass	pass
Simulated Service Test	D2570	pass	pass
Ash Content, mass %	D1119	5.0 max.	2.5 max.
Chloride wt% (ppm)	D5827	25 max.	25 max.

Approvals, Standards and Specifications

APPROVED BY:

- Cummins to CES14603 & CS14439
- MTU to MTL 5048 (for cooling systems free of light metal)

STANDARDS:

- ASTM D6210 (heavy duty) & ASTM D3306 (light duty/automotive)
- The Maintenance Council's recommended Practices for Nitrite-Containing Propylene Glycol Base Coolant, and Extended Service Interval Coolant Technologies: TMC RP330 & TMC RP338A

OE SPECIFICATIONS: 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®.

PGPlus is fully supported by the Cummins Filtration Global Warranty⁽¹⁾.

Note (1): 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 PGPlus applies for full fill situations where 100% PGPlus is being used in the application. Cummins Filtration cannot warrant its chemical products if they are mis-applied or used under improper maintenance practices.

Manufactured in Australia by Cummins Filtration.

For all enquiries regarding PGPlus please contact your local Fleetguard stockist or call our Customer Assistance team on 1800 032 037.