



**PGPLUS<sup>TM</sup>**  
ENGINE COOLANT

***A PREMIUM ENGINE COOLANT THAT PROTECTS  
YOUR ENGINE, ENTERPRISE & ENVIRONMENT.***

**Fleetguard<sup>®</sup>**  




## SYSTEM PREPARATION

### 1 INSPECT THE COOLING SYSTEM

Check pump, fan, belts, pulleys, hoses, clamps, radiator and cap. Ensure thermostat is operating properly. Repair any faults and leaks.

### 2 CLEAN SYSTEM

Contaminated cooling systems cannot transfer heat - clean the cooling system. Fleetguard offers two cleaners to address the variety of cleaning needs — Restore™ or RestorePlus™. They remove contamination without harming the metal surfaces, gaskets, hoses, or plastic parts.

Refer to Chart to identify appropriate cleaner for your system.

### 3 INSTALL A COOLANT FILTER

Ensure your system stays clean. Fit the appropriate Fleetguard coolant filter as per attached chart.

For systems without a water filter fitted, a universal adaptor kit (WFK1) is available.

### 4 FILL SYSTEM

Fill the cooling system with fully formulated PGPlus™.

## COOLANT MAINTENANCE

Each 250,000 kms or 4,000 hrs change the ES Slow Release filter on applications up to 80 ltr system. For systems over 80 ltrs add ES Extender™ as per Service Dose below, and change **non chemical** ES filter if applicable.

Test the coolant at normal oil service intervals or when major coolant loss occurs or is suspected (min. twice a year) with Fleetguard's 3-Way™ test strips. Adjust if necessary with ES Extender™.

Top up for lost coolant with PGPlus™ only. **DO NOT ADD WATER** as this will dilute the chemical balance.

### Treatment Instructions using Fleetguard's 3-Way™ Test Strips

Identifies the amount of ES Extender™ required to achieve premium protection and the appropriate Fleetguard coolant filter for your application

#### Below 0.3 units per litre

Add 2 bottles of ES Extender™ (2 x CC2840) per 80 litres of coolant.

#### 0.3 – 0.8 units per litre

Add 1 bottle of ES Extender™ (1 x CC2840) per 80 litres of coolant.

#### Above 0.8 units per litre

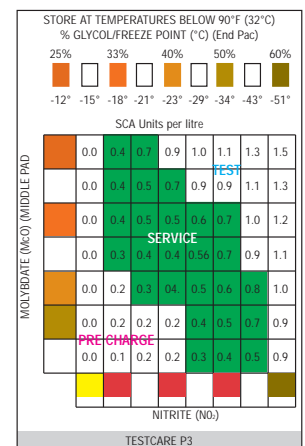
Do not add ES Extender™ to the system.

#### Note:

With correct top-off, protection should not be below 0.3 units per litre at each service interval and no less than 0.5 units per litre. The ideal level is 0.7.

For treatment use ES Extender™

1 ltr Part No. CC2840.  
20ltr Part No. CC2842.



Note: Colour chart representative only. Do not use with strips

### Coolant Total Life

Expected total coolant life is 750,000 kms or 12,000 hrs or longer if coolant condition passes the Fleetguard Quik-Chek™ test.

### Extended Service (ES) Coolant Filters

#### ES Slow Release Chemical Filters

Suitable up to 80 litre systems

WF2121\* Slow release ES chemical DCA4+™ 1/16" -16" thd

WF2124 Mack slow release ES chemical DCA4+™ 3/4" -20" thd

WF2126 Cummins Signature & ISX up to 250K klms non-chemical M36 thd x 2 - 6G

WF2128 Volvo slow release ES chemical DCA4+™ M16 thd x 1.5

WF2135 Mack slow release ES chemical DCA4+™ 1/16" thd

\* Fits standard heads for Cummins, Cat, Detroit, Komatsu

\*\*Offers additional contaminate holding capacity

#### ES Filters without Chemical Additives

Normally used on systems over 80 litres

WF2122\* Non chemical 1/16" -16" thd

WF2123\*\* Non chemical with increased media 1/16" -16" thd

WF2127 Cummins Signature up to 250K klms non-chemical M36 thd x 2 - 6G

WF2129 Volvo ES non-chemical M16 thd x 1.5

WF2130\*\* Volvo ES non-chemical with increased media M16 thd x 1.5

WF2134 Mack ES non-chemical 3/4" -20" thd

WF2137 Mack ES non-chemical 1/16" thd

Contact Cummins Filtration if you require coolant filters suited for standard service intervals.

## ENSURING YOUR SAFETY

PGPlus™ is a totally new Propylene Glycol based diesel engine coolant manufactured by FLEETGUARD® in Australia.

Propylene Glycol is recognised as Non-Hazardous, Non-Poisonous and is "generally recognised as Safe" by the Federal Drug Administration (USA), as such is commonly used in Medicine, Cosmetics and food products.

## COST EFFECTIVE SOLUTION

PGPlus™ utilises Extended Service technology that reduces downtime, improves productivity and lowers production costs over the life of the engine.

PGPlus™ can last the life of the engine if maintained properly.

## **WORKING WITH YOUR ENVIRONMENT**

✓ <i>Dangerous Goods Class</i>	<b>NONE</b>
✓ <i>Hazchem Code</i>	<b>NONE</b>
✓ <i>Poisons Schedule No.</i>	<b>NONE</b>
✓ <i>EPA Spill Reporting</i>	<b>NONE</b>
✓ <i>Biodegradeable</i>	<b>YES</b>



## **SIMPLE AND CONVENIENT**

**Pre-mixed coolant – NO MIXING REQUIRED.**

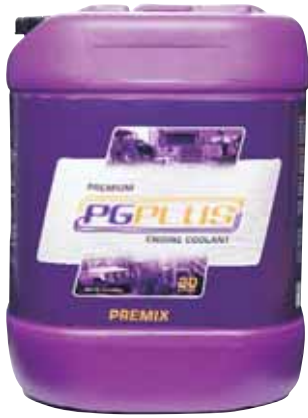
*All maintenance and testing procedures remain unchanged. Compatible with most known conventional engine coolants.*

## **TOTAL ENGINE PROTECTION**

*A fully formulated organic Extended Service diesel engine coolant, that offers improved protection from liner pitting, scale, aluminium corrosion and water pump seal leakage.*

*Satisfies major Heavy Duty engine and OEM specifications in accordance with TMC RP330 & RP338 and ASTM D6211, D5216, D4985 and D3306.*

**PGPLUS**<sup>TM</sup>  
**ENGINE COOLANT**



## PGPLUS™ ENGINE COOLANT

PGPlus™ now available in convenient 4, 10, 20, 208 and 1000, 20,000Ltr. bulk quantities.

### Premix

Part No's CC2870 (4 Ltr)  
 CC2871 (10 Ltr)  
 CC2869 (20 Ltr)  
 CC2868 (208 Ltr)

### Concentrate (Ideal for Glycol adjustment)

Part No's CC2657 (4 Ltr)  
 CC2658 (20 Ltr)  
 CC2659 (208 Ltr)



## RESTORE™ AND RESTORE PLUS™ COOLING SYSTEM CLEANERS

Cleaners that optimise your system protection and minimise potentially expensive downtime.

PROBLEM	RESTORE™	RESTORE PLUS™
Silicate Gel	Excellent	Poor
Rust	Poor	Good
Scale	Fair	Excellent
Oil & Grease	Good	Excellent
Solder Bloom	Good	Good

Mix Ratio  
 Standard mix ratio — 1:10 water for Restore™ or Restore Plus™.  
 For severe contamination removal mix 1:5 of water.

Part No's CC2610 (4 Ltr) CC2638 (4 Ltr)  
 CC2611 (20 Ltr) CC2637 (208 Ltr)  
 CC2612 (208 Ltr)



## COOLANT TEST PRODUCTS

Protect your investment and minimise downtime with Fleetguard's easy to use test methods to evaluate your coolant system condition on site.

### Test Strip Function

#### 3-Way™ Additive Test Strip

Nitrite  
 Molybdate  
 Glycol

#### Quik-Chek™ Contaminate Test Strip

Coolant pH  
 Chloride  
 Sulphate

Part No's CC2602M (50 strips) CC2607C (1 strip)  
 CC2602AM (4 strips)

### ALSO AVAILABLE:

Fleetguard's Refractometer accurately and instantly determines coolant freezing point. It can be used to test battery condition. (Part No. CC2800)

For a detailed Laboratory Analysis program providing advanced coolant diagnostics contact Fleetguard for further information.



### Cummins Filtration

31 Garden Street, Kilsyth, Victoria 3137 Australia  
 Tel: (61 3) 9721 9100 or 1800 032 037  
 Fax: (61 3) 9721 9147 or 1800 032 036  
 Web Site: www.fleetguard.com  
 Email: fleetassist.australia@fleetguard.com

### Fleetguard New Zealand

Tel: 0800 448 363 Fax: 0800 448 367

Your Cummins Filtration Stockist: