



Shell HD Premium N PG Pre-Diluted 50/50

Premium anti-freeze, anti-boil and anti-corrosion pre-diluted, propylene glycol coolant/antifreeze product ready to use directly in cooling systems

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Protection for Diesel engines using a nitrated, conventional coolant
- Propylene Glycol based formulation reduces toxicity compared to mono-ethylene Glycol based formulations
- Pre-diluted to an optimum 50:50 dilution with demineralized water for improved stability, freeze protection, and boil protection
- Amine and phosphate free
- Excellent wet sleeve liner cavitation protection
- Provides wet sleeve liner cavitation protection without an initial charge of SCA or coolant extender
- Provides appropriate corrosion protection to all coolant system metals including copper, solder, brass, steel, cast iron and aluminum
- Excellent shelf stability, 3 years
- Extended Life with proper monitoring

Main Applications

- Shell HD Premium N PG Pre-Diluted 50:50 is a propylene glycol based coolant compatible with many other coolants. It is a pre-diluted coolant requiring no field dilution. It features propylene glycol for lowered toxicity. It is capable of extended life (up to 6 years, 12,000 hours, or 1,000,000km whichever comes first) without the use of SCA's. The need for SCA's should be monitored periodically.
- Shell HD Premium N PG Pre-Diluted 50:50 is phosphate and amine free. Shell HD Premium N PG Pre-Diluted 50:50 is designed for heavy-duty diesel applications namely on-road truck, off-road mining, farm and marine applications.

Specifications, Approvals & Recommendations

Shell HD Premium N PG Pre-Diluted 50:50 can be used in the following applications meeting the performance requirements of each and others requiring a fully formulated coolant. The coolant is not OEM approved.

- Astm D3306, 4985, 6211
- Caterpillar
- Cummins
- Detroit Diesel
- Daimler Chrysler
- Ford HD Trucks
- Freightliner
- GM Heavy Truck
- Kenworth
- Landrover
- Mack Trucks
- MTU
- TMC RP 330
- New Holland
- PACCAR
- Peterbilt
- Perkins
- Saab-Scania
- Mercedes-Benz
- MAN
- Volvo Heavy Truck
- White Star
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk, or the OEM Approvals website.

Typical physical characteristics

Properties	Method	Shell HD Premium N PG Pre-Diluted 50/50
pH	ASTM D1287	7.5 - 9.0
Reserve Alkalinity	ml	3 min
Specific Gravity	@15.6°C/60°F	1.048 - 1.058
Freeze Point	ASTM D1177	-31°C +/- 2°C
Foam Volume	ml	50 max
Break Time	sec	5 max
Flash Point	ppm	n/a
Fire Point	@15.6°C	n/a
Ash Content	wt %	2.5 max
odour		Characteristic
colour		Blue
Total Glycols	wt %	50.0 min
Inhibitors and dye	wt %	2.5 max
Total Apparent Water	wt %	3.5 max
Chloride	ASTM D3634	25 max
Silicon	ppm	95 max due to Silicon from Silicate

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

Health and Safety

Shell HD Premium N PG Pre-diluted 50:50 is unlikely to present any significant health or safety hazard when properly used in the recommended Application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

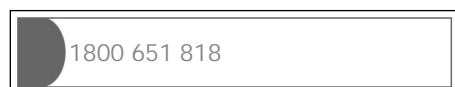
Product Usage Recommendations

- This product is already pre-diluted and does not need any further addition of water.
- Adding too much water to the coolant system without sufficient corrosion inhibitor will create corrosion performance issues in any engine coolant system.
- This product is to be applied directly into cooling systems.

Additional Information

Advice

Advice on applications not covered here may be obtained from your Shell representative.



The Shell Company of Australia Limited
(ABN 46 004 610 459) 8 Redfern Road
Hawthorn East Victoria 3123 Australia