



# Shell *Coolant Longlife G12+ Ready to Use 33/67*

## *Organic Additive Technology Pre-diluted 33/67 Coolant / Antifreeze*

Shell Coolant Longlife G12+ Ready to Use is an extended life ethylene glycol antifreeze for diesel, gasoline, and natural gas-powered engines. Shell Coolant Longlife G12+ Ready to use contains OAT corrosion inhibitor technology that provides effective corrosion protection of engine and cooling system metals. It is suitable for both heavy duty and light duty applications without supplemental coolant additives (SCAs), making it ideal for use in mixed fleet applications.

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

- Shell Coolant Longlife G12+ Ready to Use does not contain any amine, borate, nitrate, nitrite, phosphate, or silicate corrosion inhibitor technology.
- Provides long-life frost and appropriate corrosion protection to all coolant system metals including copper, solder, brass, steel, cast iron and aluminum.
- No supplemental coolant additive (SCA) use is needed during the life of the coolant.
- Formulation delivers a high level of protection against cylinder liner pitting due to cavitation.
- Shell Coolant Longlife G12+ Ready to Use helps to provide longer water pump seal life due to absence of abrasive dissolved solids.
- Vestas
- Wärtsilä SACM Diesel DLP 799861/32-9011
- Waukesha
- Yanmar
- Aston Martin
- Case New Holland MAT 3624
- CLAAS
- Cummins CES14603 (ISM and ISX Engine only per Cummins AEB90.47d)
- Proton
- FIAT Lancia 9,55523
- Great Wall
- John Deere JDM H5

#### Specifications, Approvals & Recommendations

Meets the requirements of:

- ADE
- Foton
- Behr
- BYD
- Caterpillar GCM34
- Cummins (IS series u N14,14439)
- DAF 74002
- MB-Approval 326.3
- Detroit Diesel DFS93K217
- Deutz DQC CB-14
- FENDT
- Ford WSS-M97B44-D
- GM 6277M
- Komatsu 07.892 (2009)
- Mitsubishi Heavy Industry
- ASTM D3306, D4656, D4985, D6210
- BS 6580
- NFR 15-601
- FVV Heft R443
- KS M 2142
- BT-PS-606 A
- DCSEA 615/C
- E/L-1415b
- FSD 8704
- NATO S-759
- Önorm V5123
- SAE J1034
- UNE 26-361-88/1
- AFNOR NF R15-601

- GMW3420
- Hitachi
- Isuzu
- Jaguar Land Rover CMR 8229 STJLR 651.5003
- Jenbacher TA 1000-0200
- Karosa
- Kobelco
- Leyland Trucks DW0324540
- Liebherr MD1-36-130
- Mack 014 GS 17009
- MAK A4.05.09.01
- MAN 324 Typ SNF
- MAN B&W AG D36 5600/B&W A/S/ES CW MAN175D
- Mazda MEZ MN 121 D
- MTU MTL 5048
- MWM 0199-99-2091/12
- Renault 41-01-001/- -S Type D
- Santana motors
- Tedom
- Thermo King
- Ulstein Bergen 2.13.01
- Van Hool
- Valtra
- Vauxhall

- General Motors - SAAB B 040 1065
- General Motors - Saturn
- VW Skoda 61-0-0257

### Main Applications

- Recommended for use in cooling systems of all types of liquid cooled automotive and industrial internal combustion engines as listed in the specifications.<sup>1</sup>
- Shell Coolant Longlife G12+ Ready to Use may be used with confidence in engines manufactured from cast iron, aluminum or combinations of the two metals, and in cooling systems made of aluminum or copper alloys.
- This product is already pre-diluted with water and needs no further water addition.
- Before using any coolant, please ensure that you have consulted your manufacturer's owner's manual.

1 Follow vehicle owner's manual for coolant recommendations.

### Typical Physical Characteristics

Properties	Method	Shell Coolant Longlife G12+ Ready to Use 33/67
Colour	Visual	red
pH	ASTM D1287	8.56
Density @20°C kg/m <sup>3</sup>	ASTM D4052	1 049
Reserve Alkalinity	ASTM D1121	2.2
Freeze Point 100 %vol °C	ASTM D1177	-18.5

These characteristics are typical of current production.

## Health, Safety & Environment

- **Health and Safety**

This product 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 coolant. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

- **Protect the Environment**

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

## Additional Information

- **Storage and requirements**

- The product should be stored above -20 °C and preferably at ambient temperatures. Periods of exposure to temperatures above 35 °C should be minimized.
- Further, it is strongly advised not to expose the coolant in translucent packages to direct sunlight because this can degrade the color dyes present in the coolant, and result in fading of the color or discoloration over time. This reaction can be accelerated if coupled with high ambient temperatures. To avoid this issue, it is therefore advisable to store coolant filled in translucent packages indoors.
- Shell Coolant Longlife G12+ Ready to Use can be stored for minimum 5 years in unopened containers without any effect on the product quality or performance.
- It is strongly recommended to use new containers and not recycled ones.
- As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.