

## Shell Premium Antifreeze Longlife 774 D-F concentrate

Formulation code: CRX511p

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### Description & Advantages

Shell Premium Antifreeze Longlife 774 D-F concentrate are nitrite-, amine-, phosphate free (NAP free) and silicate-, borate- free engine coolants based on Mono Ethylene Glycol (MEG). It is high-performance Long-Life OAT extremely stable formulation.

In all modern engines of car, truck and bus Shell Premium Antifreeze Longlife 774 D-F gives outstanding protection against frost, corrosion, and overheating. It effectively protects against corrosion in the cooling system in engines of both ferrous and aluminium construction. It gives high degree of corrosion protection of vital parts, the coolant channels in block and cylinder head, radiator, water pump and heater.

Because of used technology Shell Premium Antifreeze Longlife 774 D-F remains effective over a long period of time. During extensive fleet testing has proven to provide protection for at least 250 000 km for passenger vehicles and up to 650 000 km for trucks, as well 32 000 hours of operation (6 years) in stationery engines. For coolant change intervals follow the vehicle manufacturer recommendations. Safe for all car parts it comes into contact with.

Shell Premium Antifreeze Longlife 774 D-F complies with plenty of the European and International quality standards: ASTM D3306/4656/4985/6210 (US), SAE J 1034 (US), BS 6580: 2010 (UK), AFNOR NF R15-601 (FR)<sup>1</sup>, FVV Heft R443 (DE), KS M 2142 (KR), BT-PS-606 A (BE), DCSEA 615/C (FR), E/L-1415b (IT), FSD 8704<sup>1</sup> (SE), PN-C-40007 (PL), NATO S-759, Önorm V5123<sup>1</sup>; SAE J1034<sup>1</sup>; RP 364, UNE 26-361-88/1.

<sup>1</sup> - meets its specifications with the exception of reserve alkalinity.

Shell Premium Antifreeze Longlife 774 D-F has following approvals:

**Daimler – MB-Approval 325.3**

**Deutz – DEUTZ DQC CB-14**

**DAF – DAF 74002**

**Caterpillar – CAT bulletin listed**

**MAN – MAN 324 SNF**

**MWM – MWM bulletin listed**

**VW – VW TL 774 D-F**

Shell Premium Antifreeze Longlife 774 D-F meets OEM requirements us follow:

**AGCO - Fendt, Vartla**

**AGCO - Massey Ferguson**

**Alstrom – Alstrom**

**Aston Martin – Aston Martin**

**BAIC Group – Foton (Q-FPT 2313005-2013)**

**BYD Auto – BYD**

**CNH Industrial – Irisbus, Karosa**

**CNH Industrial – Iveco, Iveco bus, Iveco Astra**

**CNH Industrial – New Holland Agriculture, New Holland Construction (MAT3624, MAT3724)**

**Caterpillar – MAK, MWM (0199-99-2091/12)**

**Caterpillar – SEM (Shandong Engineering Machinery Co Ltd) (GCM34)**

**Claas – Claas**

**Cummins – Cummins (IS series U N14, CES 14603, CES14439)**

**Daimler AG – Detroit (DFS93K217)**

**Daimler – Freightliner**

Daimler – Mercedes Benz Trucks, Evobus (325.3, 326.3)  
Deutz AG – Deutz (DQC CB-14)  
Dongfeng Motor – Dongfeng Passenger Cars and Heavy Duty  
FAW Jiefang – Jiefang  
Ferrari – Ferrari (from 2005)  
Ford – Ford (WSS-M97B44-D)  
General Motors – Chevrolet, Pontiac, Buick, Cadillac, GMC (GMW 3420)  
General Motors – Holden  
General Motors – Saab (B 040 1065)  
General Motors – Saturn  
Great Wall Motors - Great Wall  
Hitachi – Hitachi  
Ingersoll Rand – Thermo King  
Innvo - Jenbacher, Waukesha (TA 1000-0200)  
Isuzu – Isuzu  
John Deere - John Deere (JDM H5)  
Kobelco – Kobelco  
Komatsu – Komatsu (07.892 (2009))  
Liebherr – Liebherr (MD1-36-130)  
Mahle Group – Behr  
Navistar – International Truck  
Paccar - DAF, Leyland (74002, DW03245403 – truck F54/55)  
Proton Holding Berhad – Proton, Lotus  
Rolls Royce Power Systems – Bergen Engines (2.13.01)  
Rolls Royce Power Systems – MTU (MTL 5048)  
SAIC Motor – MG, Maxus, Roewe  
SGMW (SAIC-GM-WULING) – Baojun, Wuling  
Stellantis – Alfa Romeo, Fiat, Lancia (from 2005) (Fiat 9,55523)  
Stellantis – Chrysler  
Stellantis – Dodge, Abarth, Maserati  
Stellantis – Jeep  
Stellantis – Opel (GMW 3420)  
Stellantis – Vauxhall (GMW 3420)  
Suzuki - Santana Motors  
Tata Motors – Jaguar, Land Rover (CMR 8229, ST JLR 651.5003)  
Tata Motors - Jaguar, Land Rover – e-vehicles  
Tata Motors – Tata  
Tedom – Tedom  
Van Hool – Van Hool  
Volvo AB – Mack, Renault Trucks (014 GS 17009, 41-01-001/- -S Type D)  
Volvo AB - Volvo Penta (from 05/2010)  
Volvo AB – Volvo Bus (from 06/2009)  
Volvo AB – UD Trucks  
Volvo AB - Volvo Trucks, Volvo Construction Equipment (from 10/2005)  
VW - Audi, Seat, Skoda, VW (1996 – 2008) (TL-774 D/F = G12/12+, 61-0-0257)  
VW - Bentley, Bugatti, Lamborghini, Porsche (1996 – 2008) (TL-774 D/F = G12/12+)  
VW – MAN (324 Typ SNF)  
VW - MAN B&W (D36 5600)  
VW – Scania (till 02/2008)  
Wärtsilä – SACM, Wärtsilä (DLP799861)  
Yanmar – Yanmar  
ZF AG – ZF

## Usage

Shell Premium Antifreeze Longlife 774 D-F concentrate solution must be diluted with water in a ratio of 1:1 before filling the cooling system. Recommended final fluid concentration is between 33% and 67% by volume. In max recommended fluid concentration point (67% vol) in the same time is max frost protection (about -70°C).

Dilution Table

Concentration (vol %)	H <sub>2</sub> O (vol %)	Freeze protection (°C)
50	50	-38

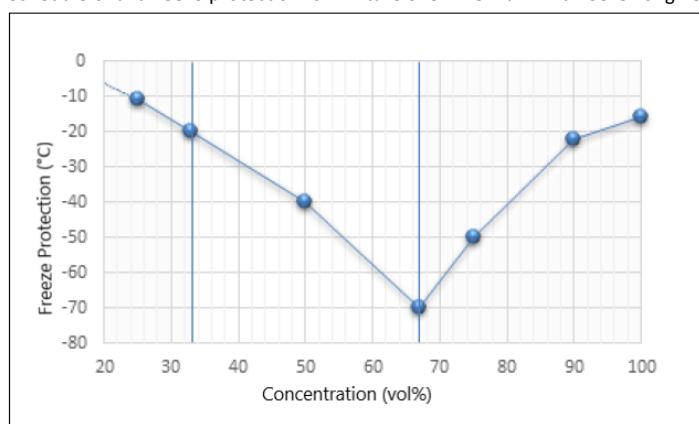
To ensure maximum protection of the cooling system is recommended to completely drain the system, rinsed, then filled with liquid Shell Premium Antifreeze Longlife 774 D-F ready to use. Start the engine and warm it with the heater turned on, then fill to the end with the prepared mixture. Always follow the advice of your vehicle manufacturer.

Shell Premium Antifreeze Longlife 774 D-F can be mixed with similar technology engine coolants based on Mono Ethylene Glycol (MEG) however, it is always recommended to follow the car manufacturer's instructions and in long run, replace the mixture fluid on the homogeneous coolant. Particular advantages of cooling fluid such as better protection for aluminum radiators and longer drain intervals can only be achieved with pure Shell Premium Antifreeze Longlife 774 D-F.

## Properties

Chemical nature	Mono Ethylene Glycol with inhibitors		
Physical state	Clear liquid		
Colour	Red		
Properties (below are typical values):			
Density at 20°C (kg/m <sup>3</sup> )	conc version	1.113	ASTM D5931
Boiling point	conc version	180°C	ASTM D1120
Density at 20°C (kg/m <sup>3</sup> )	50% dil version	1.068	ASTM D5931
Freezing point	50% dil version	-38 °C	ASTM D1177
Freezing protection	50% dil version	-40°C	
pH value	50% dil version	8.6	ASTM D1287
Boiling point	50% dil version	110°C	ASTM D1120
Miscibility with water	soluble in all proportions		

Schedule of antifreeze protection for mixture Shell Premium Antifreeze Longlife 774 D-F and water



## Stability & Storage

Shell Premium Antifreeze Longlife 774 D-F is stable for at least 8 years if stored in air-tight containers at maximum temperature of 30°C in dry and well-ventilated place. Keep container tightly closed. Galvanised steel is not recommended for any storage tanks or pipes.

## Safety

Product is classified as hazardous according to EC CLP regulations. For details, see Safety Data Sheet. A safety data sheet compliant with applicable regulations is available. No UN number.

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The information contained in this specification is based on the present state of our best knowledge and experience. Taking into account the diversity of factors that may affect the product during its use, these data do not relieve users of responsibility for carrying out their own tests and experiments; not also mean any legally binding assurances, or suitability for a particular purpose. The responsibility lies with the users of our product that all property rights and legal provisions are respected.