



## TECHNICAL DATA SHEET (TDS)

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**Product name:** SHELL PREMIUM ANTIFREEZE LONGLIFE 774 D-F ready to use

*Products Shell Premium Antifreeze Longlife 774 D-F, GlycoShell Longlife and GlycoCool G Longlife Premium Antifreeze are the same coolant technology type and completely mixable under all conditions without showing any antagonistic effects during operation with guarantee of the highest level of cooling system protection.*

### 1. Composition/information on ingredients

Shell Premium Antifreeze Longlife 774 D-F is a nitrite-, amine-, phosphate free (NAP free) and also silicate-, borate- free engine coolant based on mono ethylene glycol. Shell Premium Antifreeze Longlife 774 D-F contains corrosion inhibitor package with organic acids (OAT). Product is ready to use.

Shell Premium Antifreeze Longlife 774 D-F meet the requirements of the s standards: PN-C-40007; ASTM D3306; ASTM D4656; ASTM D4985; ASTM D6210, BS 6580; NFR 15-601<sup>1</sup>; FVV Heft R443; JIS K2234, KSM 2142; BT-PS-606 A; DCSEA 615/C; E/L-1415b; FSD 8704<sup>1</sup>; NATO S-759; Önorm V5123<sup>1</sup>; SAE J1034<sup>1</sup>; uNE 26-361-88/1. GlycoCool Longlife Premium Antifreeze 774 D-F meets or exceeds requirements from most of the car manufacturers.

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

### 2. Application

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 the block and cylinder head, the radiator, the water pump and the heater.

Because of used technology Shell Premium Antifreeze Longlife 774 D-F remains effective over a long period of time. Shell Premium Antifreeze Longlife 774 D-F inhibitor package offers excellent cavitation protection even without using supplemental coolant additives (SCA). During extensive fleet testing has proven to provide protection for at least **650,000 km** (ca. 8,000 hours) in truck & bus application or **250,000 km** (ca. 2,000 hours) for passenger cars or **32,000 hours (or 6 years)** for stationary engines. For coolant change intervals follow the vehicle manufacturer recommendations. Safe for all car parts, in which has contact.

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

ADE  
AGCO -Fendt (engines of MAN and Deutz)  
AGCO -Valtra  
Aston Martin  
BAIC Group -Foton Q-FPT 2313005-2013  
BYD Company - BYD  
CNH Industrial - MAT3624  
CNH Industrial – MAT3724  
Caterpillar – GCM34  
Caterpillar - MAK



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Caterpillar - MWM 0199-99-2091/12  
Claas  
Cummins IS series u N14 (engines: Leyland and DAF trucks)  
Cummins CES 14603  
Cummins CES 14439  
Daimler - MB 325.3  
Daimler - MB 326.3  
Daimler - Detroit DFS93K217 (Detroit Diesel – engine series 50 and 60)  
Deutz DQC CB-14  
DRB-HICOM - Proton  
Frendt  
Fiat - 9.55523  
Lancia – Fiat 9.55523  
Ford WSS - M97B44-D  
GM – Chevrolet/Buick/Cadillac/GMC GMW 3420  
GM - Saab B 040 1065  
GM - Saturn  
Great Wall Motor Co Ltd. - Great Wall  
Hitachi  
Innio Jenbacher TA 1000-0200  
Innio Waukesha  
Isuzu  
Irisbus -Karosa  
John Deere JDM H5  
Kobelco  
Komatsu 07.892 (2009)  
Liebherr MD1-36-130  
Mahle Behr  
Mazda MEZ MN 121 D (model 121ZQ)  
Mitsubishi Heavy Industry (MHI)  
**Paccar -DAF 74002**  
Paccar - Leyland Trucks DW03245403 (DAF trucks F54 i F55)  
PSA Opel GM GMW 3420  
PSA Vauxhall GMW 3420  
Renault-Nissan - Renault RNUR 41-01-001/--S Type D  
Rolls Royce Power Systems AG - MTU MTL 5048  
Rolls Royce Power Systems AG - Bergen Engines 2.13.01  
Suzuki - Santana Motors  
Tata Motors - Jaguar CMR 8229  
Tata Motors - Jaguar STJLR 651.5003  
Tata Motors - Land Rover  
Tata Motors - Land Rover STJLR 651.5003  
Tedom  
Thermo King  
Van Hool  
Vestas Wind system A/S  
Volvo AB - Mack 014 GS 17009  
Volvo AB - Volvo Penta  
Volvo AB - Renault Trucks 41-01-001/--S Type D  
Volvo AB - Volvo Construction  
Volvo AB - Volvo Trucks  
Volvo VCS 418-0001  
VW Audi TL-774D i 774 F  
VW MAN 324 Typ SNF - aproval  
VW MAN Energy Solutions  
VW MAN Energy Solutions CW MAN 175D  
VW MAN B&W A/S  
VW MAN B&W AG D36 5600  
VW Seat TL-774D i 774F  
VW Semt Pielstick  
VW Skoda TL-774D i 774F  
VW Skoda 61-0-0257  
VW Volkswagen TL-774D i 774F - approval  
Wärtsilä - SACM Diesel DLP799861  
Wärtsilä – Wärtsilä 32-9011  
Yanmar



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### 3. How to use

Product is diluted with water in a volume ratio of 1: 1. Product is ready to use.

To ensure maximum protection of the cooling system is recommended to completely drain the system, rinsed, then filled with liquid of 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 Shell Premium Antifreeze Longlife 774 D-F ready to use. Always follow the advice of your vehicle manufacturer.

### 4. Miscibility

Shell Premium Antifreeze Longlife 774 D-F can be mixed with other silicate containing engine coolants based on mono ethylene glycol, but always it is recommended to follow the instruction of car manufacturer and in longer term replace 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 Premium Antifreeze Longlife 774 D-F.

### 5. Physical and chemical properties

Chemical nature	Monoethylene glycol with inhibitors		
Physical state	liquid		
Colour	magenta/ purple		
Properties	Density at 20°C (g/cm <sup>3</sup> )	1.068 typ	ASTM D5931
	pH value	8.6 typ	ASTM D1287
	Reserve alkalinity (pH 5.5, ml)	3.0 ml typ	ASTM D1121
	Equilibrium boiling point	110°C typ	ASTM D1120-94
	Refractive index, at 20°C	1.385 typ	ASTM D1218
	Freezing point	< -37°C	ASTM D1177
	Freezing protection	-40°C typ	
Solubility	Miscibility with water	in all proportions	

### 6. Storage

Shell Premium Antifreeze Longlife 774 D-F is stable for at least 8 years if stored in airtight containers at maximum temperature of 30°C.

Keep container tightly closed. Do not keep in galvanised containers, because this can give rise to corrosion problems. Storage temperatures: ambient.

### 7. HSE information.

The product is classified as harmful. No UN number.

For details, see Safety Data Sheet. A safety data sheet according to current regulations is available.

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The information contained in this specification is based on the present state of our 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.