



TECHNICAL DATA SHEET (TDS)

Product name: SHELL PREMIUM ANTIFREEZE LONGLIFE 774 D-F ready to use
Formulation code: CRX512
Supplier: Kemetyl Polska, Sp. z o.o.,
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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 15-601¹; FVV Heft R443; JIS K2234, KSM 2142; BT-PS-606 A; DCSEA 615/C; E/L-1415b; FSD 8704¹; NATO S-759; Önorm V5123¹; SAE J1034¹; uNE 26-361-88/1. GlycoCool Longlife Premium Antifreeze 774 D-F meets or exceeds requirements from most of the car manufacturers.

¹ - 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 (w silnikach MAN i Deutz)
AGCO -Valtra
Aston Martin
BAIC Group -Foton Q-FPT 2313005-2013
CNH Industrial - MAT3624
Caterpillar -MAK
Caterpillar -MWM 0199-99-2091/11



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Claas
Cummins IS series u N14 (silniki w Leyland i DAF trucks)
Cummins CES 14603
Cummins CES 14439
Daimler -MB 325.3 - approval
Daimler - MB 326.3
Daimler -Detroit DFS93K217 (Detroit Diesel - silniki seria 50 i 60)
Deutz DQC CB-14
DRB-HICOM -Proton
Frendt
Fiat -9.55523
Lancia – Fiat9.55523
Ford WSS-M97B44-D
GM -Chevrolet
GM –Opel 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 (silniki Renault)
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 - approval
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
Volvo AB -Mack 014 GS 17009
Volvo AB –Penta
Volvo AB –Renault Trucks 41-01-001/--S Type D
Volvo AB -Volvo Construction
Volvo AB -Volvo Trucks
VW -Audi TL-774D i 774 F
VW -MAN 324 Typ SNF - aproval
VW MAN Energy Solutions
VW -MAN B&W AG D36 5600
VW -MAN B&W A/S
VW -Seat TL-774D i 774F
VW -Semt Pielstick
VW -Skoda TL-774D i 774F



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VW -Skoda 61-0-0257
VW - VW TL-774D i 774F - approval
Wärtsilä - SACM Diesel DLP799861
Wärtsilä – Wärtsilä 32-9011
Yanmar

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 774 C ready to use. Start the engine and warm it with the heater turned on, then fill to the end with the Shell Premium Antifreeze 774 C 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

Properties	Density at 20°C (g/cm ³)	1.068 typ	ASTM D5931
	pH value	8.6 typ	ASTM D1287
	Reserve alkalinity (pH 5.5, ml)	3.0 ml typ	ASTM D1121
	Boiling point	108°C typ	ASTM D1120
	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.

Date of issue: 24.10.2019

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.