



GlycoShell Longlife Concentrate

GlycoShell Longlife Concentrate is a premium premium, organic acid technology coolant (OAT) and does not contain silicates, borates, nitrites, phosphates, or amines. This product offers extended change intervals (Up to 4 years following a flush and fill) due to the OAT technology. This coolant represents the latest generation of Glycoshell coolants and is suitable for the newest automotive applications as well as extending the service interval on all other vehicles.

Properties

- **Glycoshell Longlife** is a nitrite-, amine-, phosphate-, silicate-, borate-free coolant based on ethylene glycol concentrate
- **GlycoShell Longlife Concentrate** gives outstanding protection against frost, corrosion and overheating in all modern engines, but especially highly loaded aluminium engines. It effectively protects against corrosion and deposits in the cooling system with its vital parts, the coolant channels in the block and cylinder head, the radiator, the water pump and the heater.

Miscibility

- **GlycoShell Longlife Concentrate** is miscible and compatible with previous silicate containing coolants meeting VW standard TL774B or C such as GlycoShell
- Since the special advantages of **GlycoShell Longlife Concentrate** such as improved protection for Aluminium and longer change intervals will only be achieved using only GlycoShell Longlife, mixing with other coolants should be done only in exceptional circumstances and then at levels less than 10-20%. When mixed, the service interval is that of the lesser coolant.
- **GlycoShell Longlife Concentrate** requires dilution with high quality water suitable for use in vehicle coolant systems, at a recommended rate of 50%.

*Water used for coolant systems should be de-ionized, distilled, or RO water for best results. Waste water from mining, sea water; brackish water; brine, industrial waste water are all unsuitable.

Storage Stability

GlycoShell Longlife Concentrate is stable for at least 2-5 years if stored in airtight containers. Do Not store the product in galvanized containers.

Specification and Approvals

GlycoShell Longlife Concentrate is suitable for use in applications requiring fluids of the following specification, when diluted to 50% with high quality water:

OEM	Specification
Audi	TL-774 F
Ford	WSS-M97B44-D
GM	6277
MAN	MAN 324 Typ SNF
Seat	TL-774 F
Scania	O-89 1027 GT EN
Skoda	TL-774 F
VW	TL-774 F
Mercedes Benz	DBL 7700.02
MTU	MTL 5048
Porsche	TL-774F

GlycoShell Longlife Concentrate is suitable for use as a coolant in all automotive and many heavy duty applications following a flush of the prior coolant.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet that can be obtained from your Shell representative.

Storage Requirements

Store at ambient temperatures and periods of exposure to temperatures above 35°C

Protect the environment

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

Typical Physical Characteristics

Chemical nature	Monoethylene glycol with inhibitors		
Appearance	Clear liquid, without solid contaminants,		
Properties	Density at 20 °C	1.122 –1.125 g/cm ³	DIN 51757 procedure 4
	Viscosity at 20 °C	22 – 26 mm ² /s	DIN 51562
	Refraction at 20 °C	1.432 –1.436	DIN 51423
	Boiling point	>160 °C	ASTM D 1120
	Flash point	>120 °C	DIN ISO 2592
	pH value	8.2 – 9.0	ASTM D 1287
	Reserve alkalinity M/10 HCl	8.5 –11 ml	ASTM D 1121
	Ash content	max. 2%	ASTM D 1119
	Water content	max. 3%	DIN 51777
Solubility	Miscibility with water		in all proportions
	Miscibility with hard water		no precipitation
Stability	Inhibitor stability	VW TL 774 D after 168 h	no separation
	Hard water stability	VW-PV 1426 after 10 days	no separation

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

