

## Shell Antifreeze Longlife Ultimate Protection concentrate

Formulation code: CRX865, CRX865p

Product code: PU82F, PU820, PU829

---

### Description & Advantages

Shell Antifreeze Longlife Ultimate Protection are nitrite-, amine-, phosphate free (NAP free) and silicate-, borate- free engine coolants based on Mono Ethylene Glycol (MEG), which must be diluted with water before use. It is high-performance Long-Life OAT extremely stable formulation.

In all modern engines of car, truck and bus Shell Antifreeze Longlife Ultimate Protection 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 Antifreeze Longlife Ultimate Protection 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 1000 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 Antifreeze Longlife Ultimate Protection complies with plenty of the European and International quality standards: ASTM D3306/4985 (US), SAE J 1034 (US), BS 6580: 2010 (UK), AFNOR NF R15-601 (FR), VW/Audi/Seat/Škoda/Porsche TL 774-D/F (G12/G12+), Ford WSS M97B44-D/E, MB325.3, MAN 324 Type SNF, SRPS H.Z2.010.

### Usage

Shell Antifreeze Longlife Ultimate Protection 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

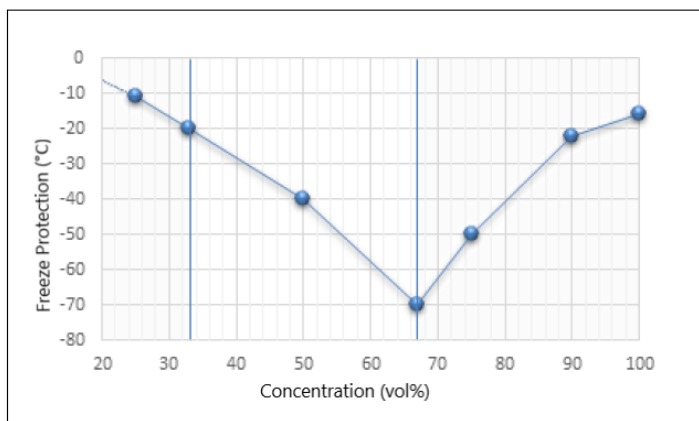
To ensure maximum protection of the cooling system is recommended to completely drain the system, rinsed, then filled with liquid Shell Antifreeze Longlife Ultimate Protection already diluted version. Start the engine and warm it with the heater turned on, then fill to the end with the prepared mixture. Always follow the advice of your vehicle manufacturer.

Shell Antifreeze Longlife Ultimate Protection 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 Antifreeze Longlife Ultimate Protection.

**Properties**

Chemical nature	Mono Ethylene Glycol with inhibitors		
Physical state	Clear liquid		
Colour	Pink		
Properties (below are typical values):			
Density at 20°C (kg/m <sup>3</sup> )	conc version	1.120	ASTM D4052
Boiling point	conc version	174°C	ASTM D1120
Density at 20°C (kg/m <sup>3</sup> )	50% dil version	1.070	ASTM D4052
Freezing point	50% dil version	-38 °C	
pH value	50% dil version	8.85	ASTM D1287
Boiling point	50% dil version	107°C	ASTM D1120
Miscibility with water	soluble in all proportions		

Schedule of antifreeze protection for mixture Shell Antifreeze Longlife Ultimate Protection and water



**Stability & Storage**

Shell Antifreeze Longlife Ultimate Protection is stable for up to 5 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.

Date of issue: 11.01.2024

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.