

ENEOS Ultra Cool VWR

Borate, Nitrite, Amine & Phosphate free

High Performance Long Life Antifreeze Coolant

ENEOS Ultra Cool VWR is top performance extended life antifreeze coolant, with superior heat transfer capability; suitable for use as a coolant and heat transfer fluid in all combustion engines. VWR coolant is an ethylene glycol based engine coolant that provides - mixed with the appropriate amount of water - efficient cooling of the internal combustion engine. The coolant transfers the heat to the radiator where the mixture is cooled by means of airflow. VWR coolant is a loblid product, which means it is formulated with a backbone of superior organic OAT (Organic Additive Technology) inhibitors in combination with mineral inhibitors (silicate). Hence it delivers not only maintenance-free protection against freezing and boiling but also long-lasting protection against corrosion thanks to long life through non-depleting corrosion inhibitor. ENEOS Ultra Cool VWR is approved for Volkswagen, Audi, Skoda, and Seat.

FEATURES & BENEFITS

- **Long Life Protection**

Provides long-life corrosion protection for all engine metals by means of synergistic effect through a particular combination of organic inhibitors.

- **Uniform and Homogenous Protective Layer** through an engineered inhibitor package

- **Long-term Stability**

As a result of high performance silicate stabiliser which prevents gelformation or drop-out

- **Frost & Boiling protection**

Protection of all metals, including aluminium and ferrous alloys, thanks to high-performance additives. Offers winter protection against engine freeze damage. Control of overheating, coolant loss and breakdown at high engine temperatures.

- **Environmentally friendly**

Absence of borate, nitrite, amines and phosphates

- **Miscibility**

Mixes with existing ethylene glycol coolants.

- Change intervals: First of 5 years or 650,000Km in truck & bus, and 250,000Km in passenger

TYPICAL PROPERTIES

Parameters	Concentrate	Protection Temperature		
		-37 °C	-26 °C	-18 °C
Appearance	RED			
Density @ 20°C	1.132	1.079	1.066	1.052
Vol% conc.	N/A	50	40	33
pH	8.5	8.4	8.3	8.3
Boiling Point	>170°C	~ 109		
Reserve Alkalinity mL ml HCl 0.1N PH 5.5	Typ 5.5 5.7	~ 2.9	~ 2.4	~ 1.9
Flash Point (PMCC)	124°C			

PACK SIZES

1L, 5L, 60L & 200L

PERFORMANCE LEVELS

ENEOS ULTRA COOL VWR technology meets the requirements of VW TL774J (G13), and has successfully passed all stringent VW lab, fleet & performance tests.

- Audi: TL-774 J = G13
- Skoda: TL-774 J = G13
- Seat: TL-774 J = G13
- Volkswagen: TL-774 J = G13

APPLICATION

- Light-duty commercial vehicle gasoline and diesel engines
- Heavy-duty diesel engines fitted with wet or dry liners, in on and off-highway service
- Motorbike, Power equipment & Outboard engines

TYPICAL MIXING RATIO

ENEOS ULTRA COOL VWR provides efficient frost and corrosion protection. To ensure good corrosion protection it is recommended to use at least 33 vol. % VWR coolant in the coolant solution. Mixtures with more than 70 vol. % VWR coolant in water are not recommended. The maximum frost protection (about -69°C) is obtained at 68 vol%.

VWR coolant may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys. VWR coolant is particularly recommended for hi-tech engines, where high temperature aluminum protection is important.

For optimal performance and controlled quality, we recommend the use of deionized or distilled water to prepare the ready-to-use dilutions. VWR coolant is compatible with most other coolants based on ethylene glycol. Exclusive use is however recommended for optimum corrosion protection and inhibitor stability.

Vol % in water	33	40	50	60
Freezing Point °C	-18	-26	-37	-53

STORAGE

The product should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimized. Further, it is strongly advised not to expose the coolant in translucent packages to direct sunlight because this can degrade the colour dyes present in the coolant, and result in fading of the colour or discoloration over time. This reaction can be accelerated if coupled with high ambient Temperatures. It is therefore advisable to store coolant filled in translucent packages indoors to avoid this issue.

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