

Genuine Volvo Parts

# VCS-2 COOLANT

The primary purpose of coolant is to prevent engine damage caused by:

- Boiling, by transferring heat from the engine, and
- Freezing, through antifreeze protection

Since the coolant comes into contact with several different types of materials in the engine, it must not corrode or deplete these materials. The coolant also lubricates the coolant pump. As with all other engine fluids, the coolant needs to be changed regularly based on Volvo's recommendations.

## Mixing of coolants

The VCS-2 coolant replaces the VCS coolant and can be used with all VCS-approved Volvo Penta engines and electric drivelines. VCS-2 can be mixed with VCS.

### Note!

Mixing of VCS2 with other coolants then VCS is not recommended.

VCS-2 is not compatible/cannot be mixed with the G48 coolant (green colour). G48 (green coolant) is still needed for older vehicles.

## Technical details

VCS-2 has been extensively tested to meet the requirements in industry standards ASTM D3306 and Volvo Group standard STD 418-0007 to guarantee optimized performance in Volvo Penta engines and electric drivelines. VCS-2 is based on LoBrid Technology (90 % Organic Acid Technology /10 % Inorganic Acid Technology), which provides improved coolant-oxidation stability, less metal corrosion, and better rubber/plastic compatibility. The inhibitors in VCS-2 are free from 2-EHA and meet stricter regulatory requirements on the removal of toxic components in coolants to improve health and the environment.

## Dilution

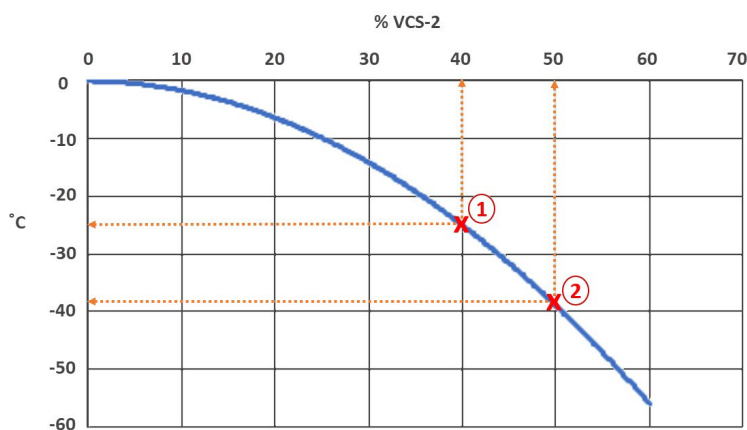
The VCS-2 coolant is available in both concentrated and ready-mixed containers, with the following blending ratios:

- 40/60 that provides antifreeze protection down to -25 °C
- 50/50 that provides antifreeze protection down to -37 °C

Both the concentrated and ready-mixed coolant are available in 5-litre, 20-litre, 208-litre and 1000-litre (IBC) containers. (Market dependent)

The concentrated coolant must be diluted with water before use and the water-quality requirements are described in the Volvo Group standard STD 1285.1. The correct mixture of VCS-2 coolant will provide protection to:

- Prevent the coolant from freezing in cold temperatures.
- Prevent the coolant from boiling in hot temperatures.
- Prevent corrosion and rust of metal parts in the cooling circuit and engine.
- Extend the life of rubber and plastic components of the coolant system.
- Prevent electrolysis, which is corrosion caused when coolant breaks down and becomes electrically charged.



Relation between percentage of VCS-2 coolant and lowest freeze protection temperature.

1) and 2) show the ready-mixed alternatives.

# VOLVO PENTA

Features	Benefits
Can be used with all VCS approved Volvo Penta engines	
Can be mixed with VCS	
Available in concentrated and ready-mixed 40/60 and 50/50 blends (Market dependent)	Improved antifreeze protection in cold climates with the 50/50 blend
Improved oxidation stability	Better engine protection
Orange color	Easy to distinguish from VCS
Free from 2-EHA (2-ethylhexanoate)	Improved health and environmental aspects
Same service interval as VCS	No need to change service plans

## Precautions for safe handling

Harmful if swallowed. Prolonged or repeated exposure may cause damage to organs.

When working with the coolant, ensure adequate ventilation and wear appropriate personal protective equipment. Wash your hands thoroughly after handling. Store in the original, tightly closed container.

Safety data sheets are available at <https://websds.volvo.com/websds>.



Serious health hazard



Health hazard/Hazardous to the ozone layer

## Storage

The inhibitor system provides satisfactory corrosion protection of the vehicle's cooling system for at least two years when vehicles are stored in stock (no circulation of coolant).