



COOLANT

OILS & CHEMICALS | 29004

Purpose

The main purpose of coolant is to cool the motor. This prevents overheating and keeps the operating temperature constant. Coolant must also fulfil other, much more complex tasks.

Tasks

- Cool the engine by the cooling system
- Protect the cooler, water pumps and cooling channels against corrosion
- Clean and prevent from mineral deposits



SYMPTOMS

- Engine temperature is too high
- Too little coolant in the expansion tank
- Oil film and oil stains in the expansion tank
- Brown coolant in the expansion tank



REASONS FOR FAILURE

- Coolant level is too low/too high
- Wrong coolant
- Change interval has been exceeded
- Cooling system is leaking



RECOMMENDED BY THE EXPERTS

- Have the level of the expansion tank checked regularly
- Replace the coolant every 2-4 years, in accordance with the manufacturer instructions
- Use a coolant specified by the manufacturer
- Coolant concentrations are between -20 and -30 °C
- Do not open the system if the engine is warm



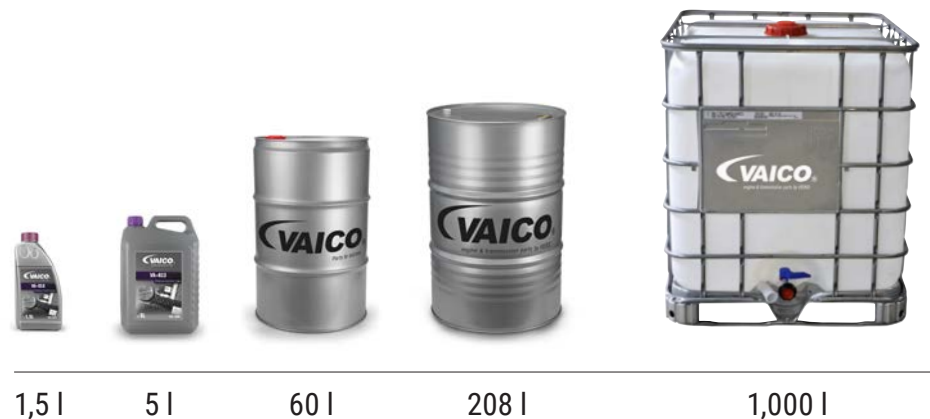
CONSEQUENTIAL DAMAGES

- Motor damage due to overheating
- Environmental pollution due to the release of coolant
- Clogging of the cooling channels
- Lack of corrosion protection
- Damage to the cylinder head gasket

COOLANT FROM VAICO

You can find more information at www.autoteile.de

- **Long coolant service life:** Additives and additional supplements prevent deposits and foaming of the coolant
- **Optimal protection of the metal components:** Corrosion inhibitors form a strong protective layer on the surface
- **Free from environmentally harmful substances:** based on ethylene glycol and free of potentially harmful substances such as nitrites, amines, phosphates



COOLANT ANTIFREEZE

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ANTIFREEZE VA-013



Audi-VW	TL 774 J, TL 774 G, G 013 A8J M1,N 052 774 J0
Mercedes-Benz	325.5
Info	Konzentrat
X-Ref 325.5*	V60-0164

ANTIFREEZE VA-012 PLUS



Audi-VW	G012 A8D A1, G012 A8F A1, TL 774 F
Mercedes-Benz	325.3, 000 989 16 25
Ford	WSS-M 97B44-D, ESE-M-978B4H-A
Info	Konzentrat
X-Ref 2U2J 19544 AA2A*	V60-0019

ANTIFREEZE VA-011 STANDARD



Audi-VW	G 011 A8C A, TL 774 C
BMW	81 22 9 407 454
Mercedes-Benz	325.0, 000 989 08 25
Info	Konzentrat
X-Ref G 011 A8C A1*	V60-0020

ANTIFREEZE VA-013 READY



Audi-VW	TL 774 J, TL 774 G, G 013 A8J M1, N 052 774 J0
Mercedes-Benz	325.5
Info	ready-to-use
X-Ref V60-2005*	V60-2005

ANTIFREEZE VA-012 PLUS READY



Audi-VW	G012 A8D A1, G012 A8F A1, TL 774 F
Mercedes-Benz	325.3, 000 989 16 25
Ford	WSS-M 97B44-D, ESE-M-978B4H-A
Info	ready-to-use
X-Ref WSS M97B4 4D*	V60-0096

ANTIFREEZE VA-011 READY



Audi-VW	G 011 A8C A, TL 774 C
BMW	81 22 9 407 454
Mercedes-Benz	325.0, 000 989 08 25
Info	ready-to-use
X-Ref 83 19 2 211 913*	V60-2004

* For detailed vehicle information, please refer to the vehicle lists under www.autoteile.de.

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