



<b>D17</b>	AH00.00-X-1000Z	<b>General notes</b>	<b>1.7.99</b>
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**E17**

AH20.00-N-2080-01A

Instructions re coolant

**Coolant composition**

Passenger car and commercial vehicle engine (normal case):

50 % by volume water and

50 % by volume anticorrosion/antifreeze agent.

See **MB Specifications for Service Products** for differing coolant composition for commercial vehicle engines.

**Purposes of anticorrosion/antifreeze agent**

- Corrosion and cavitation protection for all components in the cooling system
- Antifreeze protection
- Increasing boiling point so that the coolant does not evaporate so rapidly. Ejection of coolant is avoided at high coolant temperatures.

**Antifreeze protection**

50 % by volume of anticorrosion/antifreeze concentration offers antifreeze protection down to approx.  $-37^{\circ}\text{C}$ .

A higher concentration is only practical at even lower ambient temperatures.

55 % by volume of anticorrosion/antifreeze concentration offers antifreeze protection down to approx.  $-45^{\circ}\text{C}$ .

ⓘ A concentration of anticorrosion/antifreeze agent higher than 55 % by volume should not be used as the maximum antifreeze protection is thus reached. An even higher concentration again reduces the antifreeze protection and impairs heat dissipation.

**Water**

Use water which is clean and not too hard. Drinking water frequently, but not always, satisfies the requirements. The contents of dissolved substances in the water can be of importance for the occurrence of corrosion. In cases of doubt, analyze the water. See **MB Specifications for Service Products** for fresh water regulations.

**Operation of monitoring of coolant**

Inspect coolant for resistance to low temperatures before the start of the cold season of the year.

In countries with high ambient temperatures, inspect the anticorrosion/antifreeze concentration once a year.

The corrosion protection in the coolant is reduced during operation. Such coolants have a severely corrosive effect.

The maximum permissible period of use of the coolant is for passenger car and commercial vehicle engines (normal case) **3 years**.

See **MB Specifications for Service Products** for the period of use for differing coolant composition for commercial vehicle engines.



ⓘ Before pouring fresh coolant into the system, flush the used coolant out of the cooling system. Clean cooling system if severe soiling or oil contamination exist.

### Disposing of coolants

Observe legal regulations and local wastewater regulations.

For workshops located in the Federal Republic of Germany see:

*"Umweltschutz-Handbuch für Kfz-Reparaturbetriebe"*  
(*Environmental protection manual for vehicle repair workshops*)

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