

# Tech Talk

tips / techniques / training

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## Avoid Mixing Coolants

There are three main types of coolant additives, each of which has different properties and protects the engine and cooling system in a different way. Mixing different types of coolant can have unexpected and undesirable effects which may damage expensive components, so always use the right one for a top up or refill. If you're in any doubt about what's already in the cooling system, drain and refill with fresh coolant that follows the vehicle manufacturer's recommendation.

### Points of consideration regarding "Universal" antifreeze and coolant products

- Antifreeze products that are 'silicate free' are likely to be unsuitable for certain applications, such as the majority of BMW and Mercedes-Benz vehicles, as these manufacturers specify the use of a silicate based coolant.
- For maximum peace of mind it is safer to use an antifreeze or coolant that is approved by your vehicle manufacturer and has been tested to OEM standards.
- Volkswagen Audi Group (VAG) employ a unique antifreeze technology (Si-OAT), which combines the benefits of silicate based and OAT based coolants - Comma's Xstream® G40® carries official manufacturer approvals for VAG group vehicles.
- The 'guarantee' of compatibility suggested by so called "Universal" products may only apply as small top ups - not as 100% of the cooling fluid. Always use an antifreeze or coolant that meets the manufacturers' recommended standards.

### Comment on "Universal" coolants

- "Universal" coolants can be described as, compromise products, attempting to make a one-size fits all approach.
- There is no "Universal" coolant on the market with official manufacturers' approvals.
- Organic Additive Technology (OAT) coolants (often redish in colour) are not "Universal" coolants, they are simply one type of technology.
- Correct use of the original approved product is the simplest way to maintain your warranty during the warranty period of your vehicle.
- "Universal" coolants do not offer the same warranty accordance.



Glysantin® and G48® are brands of BASF - We create chemistry



**NEVER MIX COOLANTS**  
It simply doesn't work



# Confidence comes from within

**One vehicle model doesn't mean one engine coolant. Always fit the correct antifreeze & coolant.**

Depending on vehicle age and engine, the VW Golf needs 1 of 3 different coolant technologies.



## Xstream® G48®

Ethylene glycol based antifreeze & coolant with silicate based inhibitors. Typical service life of up to 3 years.

**Golf III 1.9 Turbo Diesel [92->99]**

**OEM Spec: VW TL 774-C**



## Xstream® G30®

Ethylene glycol based antifreeze & coolant with OAT (Organic Additive Technology) inhibitors. Typical service life of up to 5 years.

**Golf IV 1.9 TDI (110kW) [00->04]**

**OEM Spec: VW TL 774-D**



## Xstream® G40®

Ethylene glycol based antifreeze & coolant with Si-OAT (Silicated Organic Additive Technology) inhibitors. Typical service life of up to 5 years.

**Golf V 1.9 TDI (66kW) [04->08]**

**OEM Spec: VW TL 774-G**



## How can I make sure I get it right?

The safest way to select the right coolant is to use Comma's application tool at [www.CommaOil.com](http://www.CommaOil.com). Here you will find product recommendations with our 100% compatibility guarantee for engine oil and antifreeze & coolant for European vehicles going back over 30 years. It also covers brake fluid, transmission and power steering fluid recommendations.

Or download the 'Comma Oil Finder' app from Google Play and the App Store

