	Technical Service Bulletin	Transaction No:	**2022548/8**
19-17-01 - Identifying and Mixing Volkswagen Engine Coolants (U.S. Only)		**Release date:**	01/09/2020

Condition

Applicable Vehicles					
Model(s)	**Year**	**Eng. Code**	**Trans. Code**	**VIN Range From**	**VIN Range To**
All (except Routan)	1994-2019	All	All	All	All

Revision Table			
Instance Number	**Published Date**	**Version Number**	**Reason For Update**
2022548/8	1/9/2020	19-17-01	To remove G12evo.
2022548/7	1/8/2020	19-17-01	To add additional models and model year applicability along with new coolant type.
2022548/6	4/30/19	V191701	To add additional models and model year applicability.
2022548/1	3/17/10	V191002	Original publication.

Discontinuation and mixing of Volkswagen approved engine coolants.

Technical Background

Coolants G11, G12, G12+ and G12++ have been replaced by an improved version.

G13 Coolant is introduced on all engines.

Production Solution

No production change required.

Service

Identify which coolant the vehicle was filled with from the factory.

The photo below shows the color of each type of engine coolant.

Legend:

G11 - green-blue

G12 - red

G12+ and G12++ - purple

G13 (Not pictured) - purple

⚠️ **Note:**

 The photo above is for color identification only, your packaging may vary.

The table below identifies which coolant can be added to the factory coolant.

⚠️ **Note:**

G12+, G12 ++ and G13 coolants are lifetime coolants when used exclusively in the coolant system (not mixed with other coolants).

Coolants can be mixed, as described in the chart, but it is always a best practice to change the coolant due to reduced corrosion protection when coolants are mixed.

Coolants can be mixed, as described in the chart, when adding / topping off fluid levels. When the coolant is changed due to a cooling system issue, the cooling system should be drained and filled using published procedures in Elsa.

The table is read by identifying the factory filled coolant at the top, and comparing to the available service coolants to the left. (Example: If the car was factory filled with G12++ the coolant allowed is G12++ or G13).

Can be mixed with ◄ ▼	Factory Filled Coolant				
	G11 1994>>	G12 1996>>	G12+ 2000>>	G12++ 2005>>	G13 2008>>
Service Coolants G11	Y	N	N	N	N
G12	N	Y	N	N	N
G12+	Y*	Y	Y	N	N
G12++	Y*	Y	Y	Y	Y
G13	Y*	Y	Y	Y	Y

* When mixing G11 with G12+, G12++ or G13, the coolant becomes brown, this is normal

(i) Tip:

If a vehicle is found to have the incorrect coolant, the cooling system should be drained using the repair manual procedures in Elsa and then filled with the correct coolant.

(!) Note:

Cooling system drain and fill due to coolant mixing or incorrect coolant is not covered by warranty.

Warranty

Information only.

Required Parts and Tools

No Special Parts required.

No Special Tools required.

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.