



COOLANTS AND TECHNICAL FLUIDS

FOR PASSENGER
CARS



How to choose the right coolant (antifreeze) for your car

Method 1

According to the owner's manual.

Find the manufacturer's requirements for antifreeze in the owner's manual and select the appropriate product.

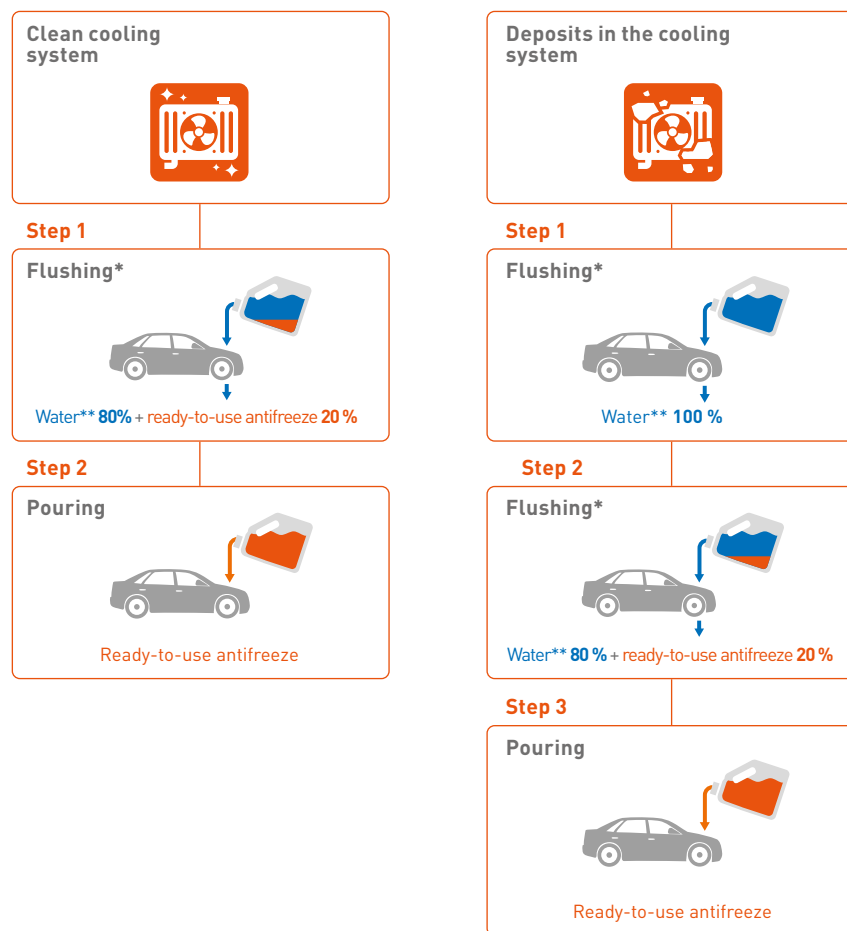


Method 2

Find your car brand in this catalog and select the antifreeze according to the applicability table.

For maximum efficiency, flush the cooling system before filling it with antifreeze.

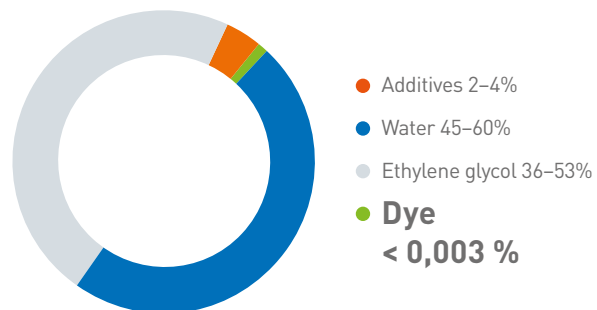
The flushing should be carried out in accordance with the vehicle manufacturer's recommendations.



* Flushing time — at least 10 minutes after the engine reaches operating temperature.

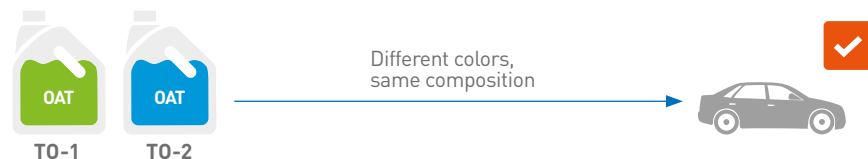
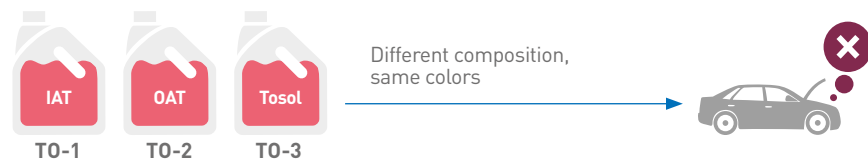
** Distilled water is preferred.

The same color does not mean the same quality



Antifreeze is colored in different colors to visually determine the level in the expansion tank or to detect leaks.

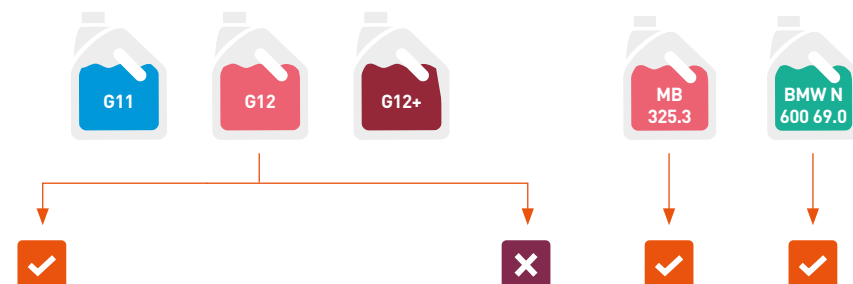
! The color does not affect the performance properties. Only the composition (including the type of additives) affects the properties.



You can pour antifreeze of a different color into the cooling system if it has the same composition.

Do not rely solely on G11, G12, G13

Classification



Volkswagen

TL 774-C/D/F/G/J
(G11, G12, G12+, G12++, G13)
is not universal and is only suitable for Volkswagen Group vehicles.

Mercedes-Benz, BMW, etc.

Automobile manufacturers have their own requirements for antifreeze, which are based on compatibility with engine construction materials. For example, Daimler/Mercedes-Benz Specification 325.0, 325.3; Ford WSS-M 97B44-D; GM 6277M; Opel B040 1065 etc.

! Be sure to follow the requirements specified by your vehicle's manufacturer.



Product range



G-Energy Antifreeze PSi-OAT 40



Lobrid
(PSi-OAT) technology



Extended replacement
interval



Color
Red

Volkswagen TL 774-L (type G12 EV0)



G-Energy Antifreeze SNF 40



Carboxylate
(OAT) technology



Extended replacement
interval



Color
Red

Volkswagen TL 774-F (type G12+)



G-Energy Antifreeze NF 40



Hybrid
technology



Extended replacement
interval



Color
Blue-green

Volkswagen TL 774-C (type G11)



G-Energy Antifreeze 40, G-Energy Antifreeze 65



Carboxylate
(OAT) technology



Color
Green



G-Energy Antifreeze RED 40



Carboxylate
(OAT) technology



Color
Red



G-Energy Antifreeze Si-OAT 40



Lobrid
(PSi-OAT) technology



Extended replacement
interval



Color
Red-purple

Volkswagen TL 774-G (type G12++)



G-Energy Antifreeze 40 PRO G12++



Lobrid
(Si-OAT) technology



Extended replacement
interval



Color
Purple

Volkswagen TL 774-G (type G12++)



G-Energy Antifreeze 40 PRO G12+



Carboxylate
(OAT) technology



Extended replacement
interval



Color
Red

Volkswagen TL 774-F (type G12+)
Suitable for use in Chinese cars



G-Energy Antifreeze 40 PRO G11



Hybrid
technology



Extended replacement
interval



Color
Blue-green

Volkswagen TL 774-C (type G11);
GB 29743
Suitable for use in Chinese cars



G-Energy Antifreeze P-OAT 40 Green



Lobrid
(P-OAT) technology



Extended replacement
interval



Color
Green

Suitable for use in Chinese cars



G-Energy Antifreeze 40 Type D



Carboxylate
(OAT) technology



Extended replacement
interval



Color
Yellow

GB 29743
Suitable for use in Chinese cars



G-Energy Antifreeze P-OAT 40



Lobrid
(P-OAT) technology



Extended replacement
interval



Color
Pink

GB 29743
Suitable for use in Chinese cars

Applicability in vehicles

Brand* (all models)	Year	G-Energy Antifreeze PSi-OAT 40	G-Energy Antifreeze SNF 40	G-Energy Antifreeze NF 40	G-Energy Antifreeze 40	G-Energy Antifreeze RED 40
BMW, MINI	Until 2019			✓		
	Since 2019	✓				
CHERY	All		✓	✓	✓	✓
CHEVROLET	All		✓			
CITROEN, PEUGEOT	All		✓			
DAEWOO, RAVON	Until 2013		✓	✓	✓	✓
	Since 2013	✓	✓			
DAIHATSU	All		✓			
DATSUN	All		✓	✓	✓	✓
FIAT	All		✓			
FORD	All		✓			
GAZ	Since 2000, gasoline engines				✓	✓
GEELY	All		✓	✓	✓	✓
GREAT WALL	All		✓	✓	✓	✓
HONDA, ACURA	All	✓	✓			
HYUNDAI, KIA	Until 2004		✓	✓	✓	✓
	Since 2004	✓	✓		✓	✓
JAGUAR, LAND ROVER	All	✓	✓			
LADA	Since 2001				✓	✓
LIFAN	All		✓	✓	✓	✓
MAZDA	Until 2003		✓	✓	✓	✓
	Since 2003	✓	✓			
MERCEDES-BENZ	Until 2014			✓		
MITSUBISHI	Since 2014					
	Until 2003		✓	✓	✓	✓
NISSAN, INFINITI	Since 2003	✓	✓			
	All	✓	✓			
OPEL	All		✓			
RENAULT, DACIA	All		✓			
SSANG YONG	Until 2007		✓	✓	✓	✓
	Since 2007	✓	✓			
SUBARU	All		✓			
SUZUKI	Until 2008		✓	✓	✓	✓
	Since 2008	✓	✓			
TOYOTA, LEXUS	Until 2003		✓	✓	✓	✓
	Since 2003	✓	✓			
UAZ	2001–2007				✓	✓
VAG (VOLKSWAGEN, AUDI, SEAT, SKODA)	Until 2008		✓			
	Since 2008	✓				
VOLVO	Until 2009		✓	✓	✓	✓
	Since 2009		✓			
HAVAL, CHERY, OMODA, JETOUR, TANK	All		✓			

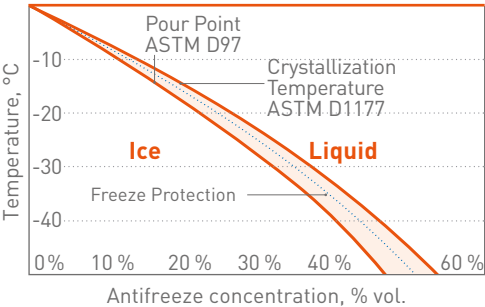
* Vehicle applicability is provided according to 2023 data and is for reference only.
Please consult your vehicle’s owner’s manual before use.

Brand* (all models)	Year	G-Energy Antifreeze 40 PRO G12++	G-Energy Antifreeze 40 PRO G12+	G-Energy Antifreeze 40 PRO G11	G-Energy Antifreeze P-OAT 40 Green
BMW, MINI	Until 2019			✓	
	Since 2019	✓			
CHERY	All	✓		✓	
CHEVROLET	All		✓		
CITROEN, PEUGEOT	All		✓		
DAEWOO, RAVON	Until 2013	✓	✓	✓	
	Since 2013		✓		
DAIHATSU	All		✓		
DATSUN	All	✓	✓	✓	✓
FIAT	All		✓		
FORD	All		✓		
GAZ	Since 2000, gasoline engines				
GEELY	All	✓	✓	✓	✓
GREAT WALL	All	✓	✓	✓	✓
HONDA, ACURA	All		✓		✓
HYUNDAI, KIA	Until 2004	✓	✓	✓	
	Since 2004		✓		✓
JAGUAR, LAND ROVER	All		✓		
LADA	Since 2001				
LIFAN	All	✓	✓	✓	✓
MAZDA	Until 2003	✓	✓	✓	
	Since 2003		✓		✓
MERCEDES-BENZ	Until 2014	✓		✓	
MITSUBISHI	Since 2014	✓			
	Until 2003	✓	✓	✓	
NISSAN, INFINITI	Since 2003		✓		✓
	All		✓		✓
OPEL	All		✓		
RENAULT, DACIA	All		✓		
SSANG YONG	Until 2007	✓	✓	✓	
	Since 2007		✓		✓
SUBARU	All		✓		✓
SUZUKI	Until 2008	✓	✓	✓	✓
	Since 2008		✓		
TOYOTA, LEXUS	Until 2003	✓	✓	✓	
	Since 2003		✓		✓
UAZ	2001–2007				
VAG (VOLKSWAGEN, AUDI, SEAT, SKODA)	Until 2008		✓		
	Since 2008	✓			
VOLVO	Until 2009	✓	✓	✓	
	Since 2009		✓		
HAVAL, CHERY, OMODA, JETOUR, TANK	All		✓		

How to dilute coolant concentrate

Gazpromneft-Lubricants offers ready-to-use coolants and concentrates for independent dilution. Distilled or deionized water is preferred for diluting the concentrate.

Graph of freezing protection temperature vs. antifreeze concentration



Dilution examples

Component ratio		Freeze protection temperature
Concentrate	Water	
2 parts	1 part	-65 °C
1 part	1 part	-40 °C

Brake fluid



G-Energy Expert DOT-4

DOT 4 fluid for automotive brake and clutch systems. Operates at ambient temperatures ranging from -50 to +50 °C.



G-Energy Expert DOT 4 Class 6

Class 6 fluid for automotive brake and clutch systems. Features improved low-temperature properties and is recommended for use in brake systems equipped with ABS, ASC, and ESP.

! Use high-quality brake fluid and replace it on time. Car manufacturers recommend replacing it at least once every two years (detailed recommendations are provided in the owner's manual). Your safety on the road depends on the quality of the brake fluid.

Automotive manufacturer specifications* and standards

Name	Specifications
G-Energy Antifreeze NF 40	Automotive manufacturer specifications VW (Audi, Seat, Skoda) TL 774-C (G-11), Daimler/Mercedes-Benz Specification 325.0, MAN 324 NF, DEUTZ DQC CA-14, Jenbacher TL 1000-0201, Jenbacher TA-Nr. 1000-0201, Liebherr Machines Bulle TLV 035, TLV 23009 A, Porsche 924, 928, 944, 968, Saab 6901599, General Motors B 040 0240, BMW N 600 69.0, Ford, Iveco Standards: ASTM D3306, ASTM D4985, AS 2108-2004, ÖNORM V 5123, CUNA NC 956-16, SANS 1251:2005, BS 6580-2010, GOST 33591-2015
G-Energy Antifreeze SNF 40	Automotive manufacturer specifications MB 325.3, MTU MTL 5048, MWM 2091/15, MAN 324 SNF, VW/Audi/Seat/Skoda TL 774-D/F (G-12/G-12+), Bentley TL 774-D/F, DAF MAT 74002, DEUTZ DQC CB-14, Jaguar (built as from 1999), Lamborghini TL 774-D/F, MINI Cooper D (built as from 2007), Porsche (built as from 1996), FORD WSS-M97B44-D, Great Wall, Fiat, Case New Holland, Claas, Caterpillar, Jenbacher TA 1000-0200, Deutz 0199-99-1115, DDC Power Cool Plus, GM 6277 M, Wartsilä 32-9011, John Deere JDM H5, Komatsu KES 07.892, Liebherr MD1-36-130, Mazda, Isuzu, Volvo VCS 418-0001 Standards: ASTM D3306, ASTM D4985, ASTM D6210, ASTM D7583, BS 6580:2010, KSM 2142, JASO M325, JIS K2234, AS 2108-2004, SAE J1034, AFNOR SNF R15-601, ÖNORM V 5123, CUNA NC 956-16, SANS 1251:2005, SH 0521-1999
G-Energy Antifreeze PSI-OAT 40	Automotive manufacturer specifications Volkswagen (VW) TL 774-L (G12 EV0), Deutz DQC CC-14, Bentley TL-774-L, Audi TL 774-L, Bugatti TL 774-L, Deutz DQC CC-14, Lamborghini TL 774-L, Porsche TL 774-L, Seat TL 774-L, Skoda TL 774-L, BMW LC-18 > 01/2019 Standards: ASTM D3306, ASTM D4985
G-Energy Antifreeze 40, 65 PSI-OAT 40	Automotive manufacturer specifications: LLC "Avtozavod GAZ", PJSC "AVTOVAZ", PJSC "Avtodizel" (YAMZ), PJSC «KAMAZ», UAZ Standards: ASTM D3306, BS 6580:2010, GOST 33591, ASTM D 4340
G-Energy Antifreeze RED 40	Automotive manufacturer specifications: PJSC "AVTOVAZ", LLC "Avtozavod GAZ", PJSC «KAMAZ», PJSC "Avtodizel" (YAMZ), Standards: ASTM D3306, BS 6580-2010, GOST 33591-2015
G-Energy Antifreeze 40 PRO G12++	Automotive manufacturer specifications: MAN 324 Si-OAT, MTU MTL 5048, Volkswagen TL774 J, TL774K, TL774G, VW (G12++), BMW GS 94000, Volkswagen/Audi/Seat/Skoda/Lamborghini/Bentley/Bugatti, Porsche (from 1996), Daimler/Mercedes-Benz 325.5/325.6 Standards: ASTM D3306, ASTM D4985, ASTM D6210
G-Energy Antifreeze 40 PRO G12+	Automotive manufacturer specifications: DAF MAT 74002, Deutz, Ford, MAN 324 Typ SNF, MB 325.3, MTU MTL 5048, Porsche, VW (G12+), JIS K 2234, Audi/Seat/Skoda, GM 6277M Standards: Afnor NF R15-601, AS 2108-2004, ASTM D3306, ASTM D4985, ASTM D6210, ASTM D7583, BS 6580-2010, CUNA NC 956-16, ONORM V 5123, SAE J1034, SANS 1251:2005, SH 0521-1999
G-Energy Antifreeze 40 PRO G11	Automotive manufacturer specifications: VW TL 74-C (G-11), Deutz DQC CA-14, Audi, BMW N 600 69.0, Ford, GM B 040 0240, Iveco T18-1804 Classe T3 E4, MAN 324 NF, MB 325.0, MTU MTL 5048, Porsche 924, 928, 944, 968, Saab 6901599, Seat, Skoda, Mitsubishi Standards: Afnor R15-601, AS 2108-2004, ASTM D3306, ASTM D4985, BS 6580-2010, ONORM V 5123, CUNA NC 956-16, SANS 1251:2005, China GB 29743
G-Energy Antifreeze P-OAT 40 Green	Automotive manufacturer specifications: Nissan, Mitsubishi, MAZDA, HONDA, HYINDAI, KIA Standards: ASTM D3306, ASTM D 4985, ASTM D6210, BS 6580, Japanese Standard (JIS) K2234, Korean Standard (KSM) 2142
G-Energy Antifreeze SI-OAT 40	Automotive manufacturer specifications: BMW LC-18 (>01/2019), Cummins 14603, MAN 324 Si-OAT, MB 325.5, MTU MTL 5048, VW TL 774 G (G12++) Standards: ASTM D3306, ASTM D4985, GOST 33591
G-Energy Antifreeze 40 Type D	Automotive manufacturer specifications: Renault Standard 41-01-001/--T, GB 29743, SAE J 814, SAE J 1034, BS 6580, JIS K2234, KSM 2142K Standards: ASTM D3306, ASTM D6210
G-Energy Antifreeze P-OAT 40	Automotive manufacturer specifications: BS 6580-2010, GB 29743, JIS K 2234, KSM 2142K, SAE 1941 Standards: ASTM D3306, ASTM D4985, ASTM D6210

* Specification data is current as of 2025. For the latest list of approvals and specifications, and more detailed information, visit www.g-energy.org.

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