SPEEDOL
Since 1921

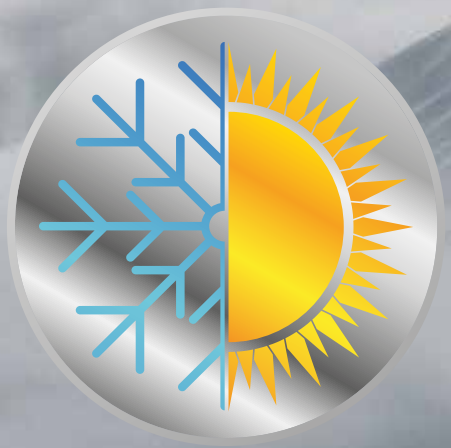
Antifreeze

ORGANIC CONCENTRATE

- Generally orange or red colour.
- Its use in the radiator is 5 year.

INORGANIC

- Generally blue or green colour.
- Its use in the radiator is 2 year.



SPEEDCOOL ANTI-FREEZE LONGLIFE SGG40 G13

SpeedCool Anti-Freeze Longlife SGG40 is a pink-violet color, superior corrosion-protected coolant formulated for use in all high-tech radiators, especially aluminum, cast iron and magnesium alloys, utilizing the long-lasting protection feature of low silicate and hybrid (Si-HOAT) organic acid technology (LoBrid). Free of nitrite, amine, phosphate (NAP) and borate. It is more enviromentally friendly than the G12 series.

Technical Properties

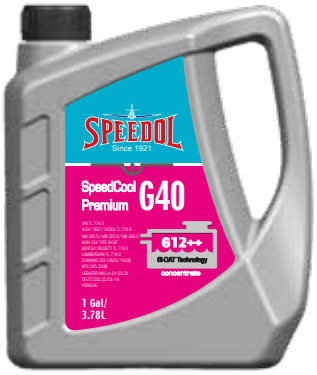
Colour	Visual	Pink-Violet
Boiling Point, °C/°F	ASTM D 1120	117 (243)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-56 / -69	100	-
-37 / -35	80	20
-26 / -14,8	65	35
-17 / 1,4	50	50

* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes.
Do not use seawater or brackish.

Performance

Audi/Seat/Skoda/VW TL 774 D/J (G13 Type)



SPEEDCOOL PREMIUM G40 G12++ (774G)

SpeedCool Premium G40 G12++ is a long life premium concentrated automotive engine coolant developed with silicate-organic acid (Si-OAT) technology with ethylene glycol specially for use with today's modern cooling systems with all metals incluiding aluminum. It's free of nitrats, nitrites, amins, phosphates and borates.

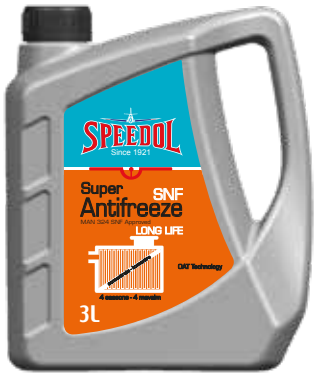
Technical Properties

Colour	Visual	Pink - B&C
Boiling Point, °C/°F	ASTM D 1120	356 (180)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-0,4 / -18	33	67
-12 / -24	40	60
-34 / -37	50	50

*Data given above are typical properties and may vary slightly.

Performance

VW/ AUDI/ SEAT /SKODA TL / LAMBORGHINI / BENTLEY / BUGATTI TL 774 G
DAIMLER /MERCEDES-BENZ MB APPROVAL 325.5/ 325.6/ 326.0
MAN 324 TYPE Si-OAT
CUMMINS CES 14603/14439
MTU MTL 5048
LIEBHERR MINIMUM LH -01-COL3A
DEUTZ DQC CC/CA -14 PORSCHE
ASTM D 3306 ASTM D 4985 BS 6580 (GB)
SAE J1034 SAE J1941 NATO S 759



SUPER ANTIFREEZE SNF(G12+)

Super Antifreeze SNF (Silicate Nitride Free) (G12+) is a long life antifreeze developed with organic acid technology specifically for use with today's modern aluminum honeycomb high-performance water-cooled internal combustion engines. It contains mono ethylene glycol and high quality organic anti-corrosion additive and also it is environment friendly (Biodegradable / borate, nitrite, nitrate, amine, phosphate and silicate free) antifreeze.

Technical Properties

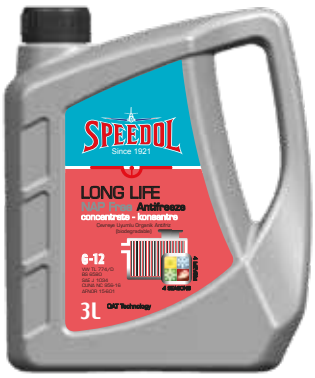
Colour	Visual	Orange
Boiling Point, °C/°F	ASTM D 1120	188 (370)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water(ml)
-13 / 8,6	100	0
-57 / -70	70	30
-50 / -58	60	40
-37 / -34,6	50	50
-25 / -13	40	60
-20 / -4	35	65

* Data given above are typical properties and may vary slightly.
** Mono ethylene glycol based antifreeze has a higher protection performance when diluted with water at certain ratios, while the protection performance is low when used in pure form..

***Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

MAN 324 Type SNF,
MB 325.3,
Deutz Cummins,
Ford WSS-M97B44-D,
GM 6277M,
VW TL 774F,
Skoda,
DAF Trucks,
Scania TB 1451,
Volvo,
Renault,
Detroit Diesel Series 50&60,
Isuzu,
Komatsu,
Leyland Trucks,
ASTM D3306/ D4656,
BS 6580,
FVV Heft R443,
JIS K2234,
KS M 2142,
MIL BT-PS-606A,
MIL DCSEA 615/ C,
MIL E/L-1415b,
UNE 26-361-88/1



NAP FREE ORGANIC ANTIFREEZE (CONCENTRATED)

NAP Free Antifreeze is a concentrated organic coolant in transparent red color contains mono ethylene glycol and high quality organic anti-corrosion additives. It doesn't contain borate, nitrite, nitrate, amine, phosphate and silicate which are harmful to the environment. It is a long life biodegradable antifreeze & coolant fluid based of high quality organic acid technology.

Technical Properties

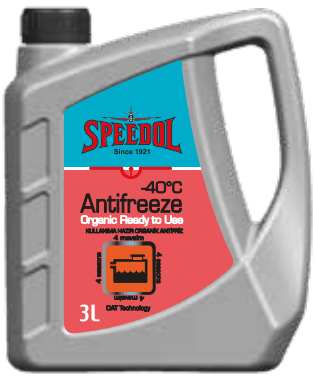
Colour	Visual	Red
Boiling Point, °C/°F	ASTM D 1120	180 (356)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-13 / -8,6	100	0
-60 / -76	70	30
-50 / -58	60	40
-37 / -34	50	50
-25 / -13	40	60
-20 / -4	35	65

*Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

BS 6580(GB), SAE J 1034(I), CUNA NC 956-16(I), FVV HEFT R 443(D), JIS K 2234(1)(J), UNE 26361-88(E), AFNOR R 15/601(1) (F), KSM 2142(K), EMPA(CH), ASTM D 3306/4985, NATO S 759, E/L 1415c (MIL ITALY), PORCHE/VW/AUDI /SEAT/SKODA TL 774 D/F, MB 325.3/2/1/0, FORD ESE M 97B49-A, CUMMINS 85T8-2(1), MAN N. MAN 248 AND 324 , WARTSILIA 32-9011(C.W.), PEGASO, GM US 6277 M, RN 41-01-001, FORD WSS-M97B44-C, CHRYSLER MS 9176, CUMMINS 90T8-4, MACK 014GS17004, MAN B&W D 36 5600, GM 1899 M(1), NAVISTAR B-1 TYPE III, VOLVO(REG.N° 260), NAVİSTAR V-1, Volvo, FORD ESD M 97 B49-A, OPEL GM QL 130100, LEYLAND TRUCKS LTS 22 AF 10, JOHN DEERE H 24 B1 /C1, DEUTZ/MWN 0199-2091 2AUFLAGE (C.W.), MACK 014GS 17004



READY TO USE ORGANIC RED ANTIFREEZE(-40)

Ready to Use Antifreeze Organic -40°C is a ready-to-use organic antifreeze prepared with mono ethylene glycol based, pure demineralized water and high quality organic corrosion inhibitor additives. Not contain borate, nitrite, nitrate, amine, phosphate and silicate which are harmful to the environment. Ready to Use Organic Red Antifreeze -40°C is based on superior organic acid technology and environmentally friendly (biodegradable).

Technical Properties

Colour	Visual	Red
Boiling Point, °C/°F	ASTM D 1120	112/233
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-40 / -40	100	0
-35 / -31	90	10
-27 / -16,6	80	20
-22 / -7,6	70	30
-18 / 0	60	40
-13 / 8,6	50	50

* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

BS 6580(GB), SAE J 1034(I), CUNA NC 956-16(I), FVV HEFT R 443(D), JIS K 2234(1)(J), UNE 26361-88(E), AFNOR R 15/601(1) (F), KSM 2142(K), EMPA(CH), ASTM D 3306/4985, NATO S 759, E/L 1415c (MIL ITALY), PORCHE/VW/AUDI/SEAT/ SKODA TL 774 D/F, MB 325.3/2/1/0, FORD ESE M 97B49-A, CUMMINS 85T8-2(1), MAN N. MAN 248 AND 324 , WARTSILIA 32-9011(C.W.), PEGASO, GM US 6277 M, RN 41-01-001, FORD WSS-M97B44-C, CHRYSLER MS 9176, CUMMINS 90T8-4, MACK 014GS17004, MAN B&W D 36 5600, GM 1899 M(1), NAVISTAR B-1 TYPE III, VOLVO(REG.N° 260), NAVİSTAR V-1, Volvo, FORD ESD M 97 B49-A, OPEL GM QL 130100, LEYLAND TRUCKS LTS 22 AF 10, JOHN DEERE H 24 B1 /C1, DEUTZ/MWN 0199-2091 2AUFLAGE (C.W.), MACK 014GS 17004

ANTI-FROST LIQUID EG-34

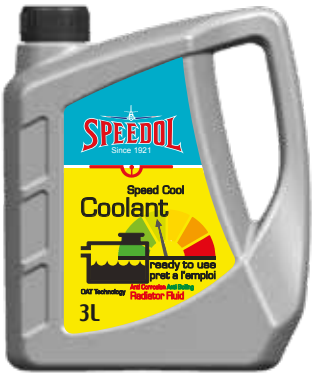
ANTI-FROST LIQUID EG-34 is a transparent yellow color liquid containing mono ethylene glycol and high quality organic anti-corrosion additives for use as cooling and heat transfer medium in indoor hot water heating systems, heat pumps and industrial refrigeration equipment. It doesn't contain borate, nitrite, nitrate, amine, phosphate and silicate which are harmful to the environment. It is a long life biodegradable antifreeze & coolant fluid based of high quality organic acid technology.

Technical Properties

Colour	Visual	Yellow
Density, 15,5 °C	ASTM D 4052	1,0754
pH; -Diluted with 50% -Undiluted antifreeze	ASTM D 1287	8,02 8,30
Reserve Alkalinity; -Diluted with 50% -Undiluted antifreeze	ASTM D 1121	- 4,8
Reserve Alkalinity; -Diluted with 50% -Undiluted antifreeze	ASTM D 1177	-34 -12 -4

* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes.
Do not use seawater or brackish.



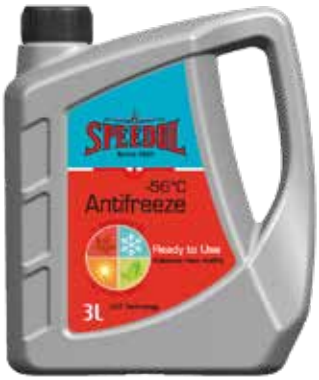
COOLANT ORGANIC READY TO USE

Speedol Coolant Organic is the radiator fluid which anti-corrosion and anti-boiling property. It is suitable for use except the winter season.

Technical Properties

Colour	Visual	Yellow
Boiling Point, °C/°F	ASTM D 1120	105 (221)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-13 / 8,6	100	0
-11 / 12,2	90	10
-10 / 14	80	20
-7 / 19,5	70	30
-6 / 21	60	40
-5 / 23	50	50

* Data given above are typical properties and may vary slightly.



READY TO USE ORGANIC ANTIFREEZE (-56°C)

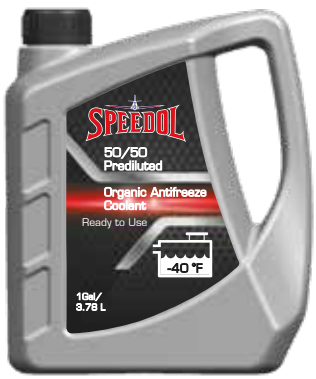
Ready to Use Antifreeze Organic -56°C is a ready-to-use organic antifreeze prepared with mono ethylene glycol based, pure demineralized water and high quality organic corrosion inhibitor additives. Not contain borate, nitrite, nitrate, amine, phosphate and silicate which are harmful to the environment. Ready to Use Antifreeze Organic -56°C is based on superior organic acid technology and environmentally friendly (biodegradable).

Technical Properties

Colour	Visual	Red
Boiling Point, °C/°F	ASTM D 1120	115 (239)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-56 / -68	100	0
-42 / -43	90	10
-37 / -34,6	80	20
-28 / -18,5	70	30
-22 / -7,6	60	40
-16 / 3,2	50	50

* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.



50/50 PREDİLUTED ORGANİC ANTİFREEZE (-40 °F) COOLANT

Speedol 50/50 Prediluted Organic Antifreeze (-40 °F) Coolant is a ready to use organic antifreeze containing mono ethylene glycol, demineralized pure water and high quality organic anti-corrosion additives. It is especially recommended for aluminum alloy radiators and motors made of light metals. It is also used in cast iron and steel body radiators and motors.

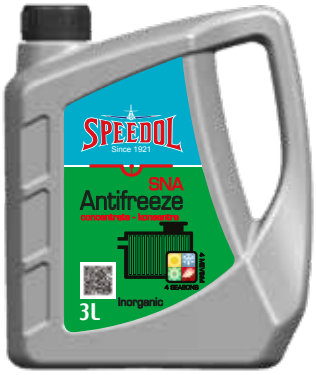
Technical Properties

Freezing Point °C	Freezing Point °F	Antifreeze Ratio	Water Ratio
-40 °C	-40 °F	100%	0%
-27 °C	-17 °F	80%	20%
-13 °C	9 °F	50%	50%

*Data given above are typical properties and may vary slightly.

Performance

BS 6580(GB), SAE J 1034(I), CUMA NC 956-16(I), FVV HEFT R 443(D), JIS K 2234(1)(J), UNE 26361-88(E), AFNOR R 15/601(1) (F), KSM 2142(K), EMPA(CH), ASTM D 3306/4985, NATO S 759, E/L 1415c, PORCHE/VW/AUDI/SEAT/SKODA TL 774 D/F, MB 325.3/2/1/0, FORD ESE M 97B49-A, CUMMINS 85T8-2(1), MAN 248, MAN 324 SNF, WARTSILIA 32-9011(C.W.), PEGASO, GM US 6277 M, RN 41-01-001, FORD WSS-M97B44-C, CHRYSLER MS 9176, MACK 014GS17004, MAN B&W D 36 5600, GM 1899 M(1), NAVİSTAR V-1, Volvo, FORD ESD M 97 B49-A, OPEL GM QL 130100, LEYLAND TRUCKS LTS 22 AF 10, JOHN DEERE H 24 B1 /C1, DEUTZ/MWN 0199-2091 2AUFLAGE, MACK 014GS 17004



SNA INORGANIC ANTIFREEZE (CONCANTRATE)

Speedol SNA Antifreeze is a high quality ethylene glycol based inorganic coolant formulated with special additives that are free of nitrite, amine and phosphate for use in the cooling systems of gasoline and diesel vehicles for four seasons.

Technical Properties

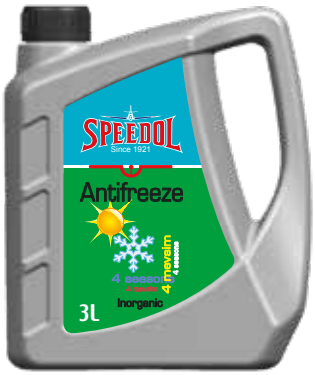
Colour	Visual	Green
Boiling Point, °C/°F	ASTM D 1120	181 (358)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-13 / 8.6	100	0
-57 / -70	70	30
-50 / -58	60	40
-37 / -34.6	50	50
-25 / -13	40	60
-20 / -4	35	65

* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

BS 6580(GB), SAE J1034, CUNA NC 956-16(I), FVV Heft R 443(D), JIS K 2234(J), UNE26361-88(E), AFNOR R 15601(F), KSM 2142(K), EMPA (CH), ASTM D 3306-4985, NATO S 759, E/L 1415 c (MIL ITALY), PORSCHE/VW/AUDI/-SEAT/SKODA TL 774 C, MB DBL 7700, MAN 324 , GM US 6277 M, VOLVO (REG. N° 260) , FORD WSS-M97B44-C, Chrysler MS 9176, BMW N 600 69.0, GM US 6277 M, FORD ESD M97 B49-A, OPEL GM QL 130100, FIAT



ALL SEASONS ANTIFREEZE

Speedol All Seasons Antifreeze is a superior quality ethylene glycol based inorganic coolant formulated with special additives for use at cooling systems of all gasoline and diesel operated vehicles in all seasons.It is free of nitrite, amine and phosphate.

Technical Properties

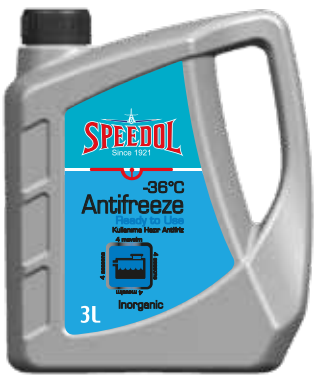
Colour	Visual	Green
Boiling Point, °C/°F	ASTM D 1120	132 (269)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-56 / -69	80	20
-45 / -49	70	30
-35 / -31	60	40
-24 / -11	50	50
-16 / 3	40	60
-13 / 8,6	35	65

*Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

BS 6580(GB), SAE J1034, CUNA NC 956-16(I), FVV Heft R 443(D), JIS K 2234(J), UNE26361-88(E), AFNOR R 15601(F), KSM 2142(K), EMPA (CH), ASTM D 3306-4985, NATO S 759, E/L 1415 c (MILITARY), PORSCHE/VW/AUDI /SEAT/SKODA TL 774 C, MB DBL 7700, MAN 324 , GM US 6277 M, VOLVO (REG. N° 260) , FORD WSS-M97B44-C, Chrysler MS 9176, BMW N 600 69.0, GM US 6277 M, FORD ESD M97 B49-A, OPEL GM QL 130100, FIAT



READY TO USE INORGANIC ANTIFREEZE (-36°C)

Ready to Use Inorganic Antifreeze -36°C is four seasons type blue colored mono ethylene glycol based inorganic structured ready to use direct usable anti-freeze and anti-corrosive liquid which provides protection up to -36 ° C. Used in cast steel or aluminium engine cooling system of diesel & gasoline vehicles and industrial applications for general cooling purposes.

Technical Properties

Colour	Visual	Blue
Boiling Point, °C/°F	ASTM D 1120	112/233
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-36 / -33	100	0
-30 / -22	90	10
-24 / -11	80	20
-20 / -4	70	30
-17 / 1,5	60	40
-13 / 8,6	50	50

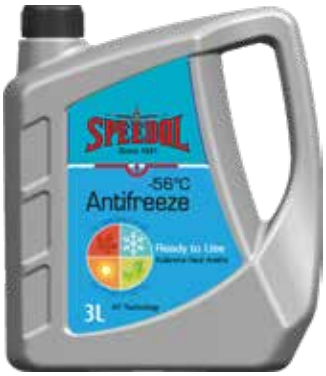
* Data given above are typical properties and may vary slightly.

**Use only fresh water. Do not use water from industrial processes. Do not use seawater or brackish.

Performance

BS 6580(GB), SAE J1034, CUNA NC 956-16(I), FVV Heft R 443(D), JIS K 2234(J), UNE26361-88(E), AFNOR R 15601(F), KSM 2142(K), EMPA (CH), ASTM D 3306-4985, NATO S 759, E/L 1415 c (MILITARY), PORSCHE/VW/AUDI/-SEAT/SKODA TL 774 C, MB DBL 7700, MAN 324 , GM US 6277 M, VOLVO (REG. N° 260) , FORD WSS-M97B44-C, Chrysler MS 9176, BMW N 600 69.0, GM US 6277 M, FORD ESD M97 B49-A, OPEL GM QL 130100, FIAT

READY TO USE INORGANIC ANTIFREEZE (-56°C)



Ready to Use Antifreeze Inorganic -56°C is four seasons type blue colored mono ethylene glycol, inorganic structured ready to use direct usable anti-freeze and anti-corrosive liquid which provides protection up to -56 ° C. Used in cast steel or aluminium engine cooling system of diesel & gasoline vehicles and industrial applications for general cooling purposes.

Technical Properties

Colour	Visual	Blue
Boiling Point, °C/°F	ASTM D 1120	116 (241)
Freezing Point, °C/°F (ASTM D 1177)	Antifreeze (ml)	Water (ml)
-56 / -68	100	0
-42 / -43	90	10
-37 / -34,6	80	20
-28 / -18,5	70	30
-22 / -7,6	60	40
-16 / 3,2	50	50

* Data given above are typical properties and may vary slightly.

WHY ARE ANTIFREEZES COLORED?

In order to detect antifreeze leaks in vehicles, they are colored by adding dye to products such as antifreeze / coolant, which are normally colorless and transparent.

Inorganic antifreezes which generally blue in market, are colored blue or green.

Organic antifreezes which generally red in market, are colored red, yellow, orange, pink or violet.

G11

G11 class are generally have blue or green colour.

Inorganic.

Its use in the radiator is 1 year.

They include silicate, phosphate and borate.

G12

G12 class are generally orange or red colour.

Organic.

Environmentally friendly.

Its use in the radiator is 3 year.

Their lifetime are more longer than G11.

They include silicate, phosphate and borate.

Strong Performance against Rust and Corrosion Protection.

G12+

G12+ class are generally has pink colour.

Special additive technology.

Environmentally friendly.

Its use in the radiator is 5 year.

G12++

Enhanced longevity.

High cooling performance and protection.

Strong performance against rust and corrosion.

Mixing with other refrigerants.

Dilution.

G13

G13 class are generally has pink colour.

Special additive technology

Environmentally friendly.

Long Life.

SPEEDOL Since 1921 academy