RIDEX

MADE IN EUROPE



ANTIFREEZE & COOLANTS

2026 CATALOGUE


RIDEX
COOLANT
READY TO USE
-35°C
G11
ASTM D3306, D4656
BS 6580
SAE J1034
Porsche/Volkswagen/Audi/-
Seat/Skoda TL 774 C
5L

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RIDEX AT A GLANCE

RIDEX is a brand built on decades of automotive expertise at AUTODOC, Europe's leading e-commerce platform for aftermarket auto parts.

For years, we have gathered insights from drivers across Europe, analysed component performance, and collected a wealth of customer feedback.

This knowledge became the foundation for RIDEX – a brand created to deliver excellence. In just 9 years, RIDEX has reached over 12 million customers, selling more than 73 million parts.

Manufacturing in certified and industry-leading factories across Europe and Asia ensures exceptional quality and precision in every component.

With a portfolio featuring over 480 product categories and nearly 60,000 references, we've got exactly the right parts to meet your every need – parts you can trust!

SOLD IN 27 EUROPEAN COUNTRIES



480+
product categories

60,000+
SKUs

12M+
online customers

17,000+
orders per day

RIDEX OFFER

WIDE ASSORTMENT	From proven basics to technically advanced products – we've got just the right solution for every need.
PROVEN QUALITY	Our products are manufactured by leading factories that are certified according to standards such as IATF 16949, ISO 9001, ISO 14001, and ISO 45001
COMPETITIVE PRICING	By cutting out the middlemen and operating at scale, we can deliver considerable cost savings directly to our customers
DEDICATED SUPPORT	Expert assistance at every step – with your personal account manager and our support team by your side
SMART LOGISTICS	Efficient shipping, seamless order processes, and innovative integration tools for smooth operations



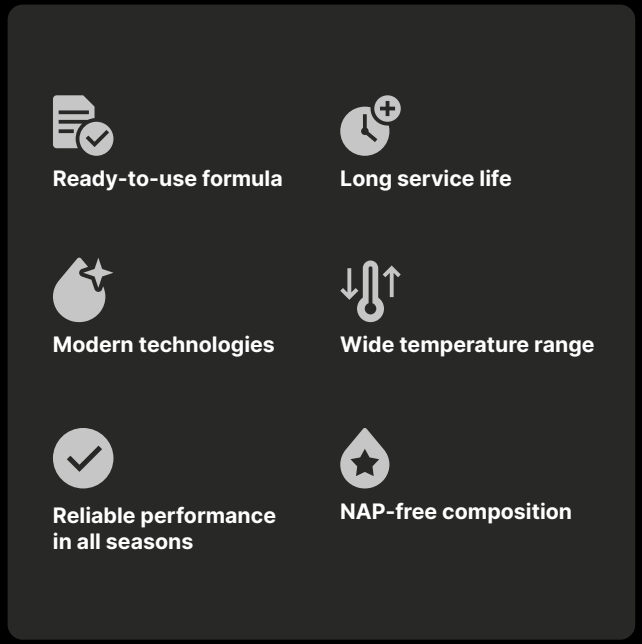
READY TO USE COOLANTS

READY TO USE COOLANTS

RIDEX coolants are ready-to-use solutions engineered to deliver reliable engine protection against freezing, overheating, and corrosion. Powered by IAT, OAT, and Lobrid Si-OAT technologies, they provide high thermal stability, prevent deposits, and help extend engine life. The range includes formulations approved for a wide variety of vehicles, enabling customers to select the product that precisely matches manufacturer specifications.

ADVANTAGES

- Pre-mixed for immediate use
- Reliable freeze protection
- Strong corrosion protection
- Reduced deposit formation
- Consistent heat transfer performance
- Protection against foaming



The data mentioned in this product information sheet is intended to enable the reader to understand the properties and potential applications of our products. We reserve the right to modify the general characteristics of our products in order to offer our customers the latest technical developments. You can download the most recent material safety data sheet for this product from our website.

Description:

For cooling petrol and diesel engines in modern cars, buses, and trucks with a higher proportion of aluminium parts. G11 is a ready-to-use monoethylene glycol-based antifreeze with Inorganic Additive Technology (IAT). It is free of nitrites, amines, and phosphates (NAP-free). Recommended replacement interval: every 120,000 km or 3 years for passenger cars.

Application:

The product protects car cooling systems at temperatures down to –35°C. Handle in accordance with the vehicle manufacturer's specifications.

Chemical nature:

Aqueous solution of ethylene glycol with anti-corrosion and anti-foaming additives.

READY TO USE COOLANT
–35°C G11



Standards and requirements met:

BS 6580, AFNOR R 15/601, AS 2108, SAE J 1034, JIS K 2234, CUNA NC 956-16, UNE 26-361, ÖNORM V 5123, ASTM D3306. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 C, MAN 324 Typ NF, Deutz DQC CA-14, Fiat/Lancia/Alfa Romeo 9.55523, Chrysler MS-7170, Iveco 18-1830, Ford ESD-M97B49-A, GM-Opel GME L1301, Saturn, JI Case JIC-501, MTU MTL 5048.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Blue	Visual
Density at 20°C	> 1 g/cm^3	ASTM D5931
Freezing point	< –34.5°C	ASTM D1177
pH	8.0–9.5	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	≥ 8 ml	ASTM D1121
Foaming characteristics at 88°C	< 35 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	–0.1

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

G11 coolant has a shelf life of up to 3 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1L 5L 10L

Description:

For cooling petrol and diesel engines in modern cars, buses, and trucks with a higher proportion of aluminium parts. G11 is a ready-to-use monoethylene glycol-based antifreeze with Inorganic Additive Technology (IAT). It is free of nitrites, amines, and phosphates (NAP-free). Recommended replacement interval: every 120,000 km or 3 years for passenger cars.

READY TO USE COOLANT –35°C G11



Application:

The product protects car cooling systems at temperatures down to –35°C. Handle in accordance with the vehicle manufacturer's specifications.

Chemical nature:

Aqueous solution of ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, AFNOR R 15/601, AS 2108, SAE J 1034, JIS K 2234, CUNA NC 956-16, UNE 26-361, ÖNORM V 5123, ASTM D3306. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 C, MAN 324 Typ NF, Deutz DQC CA-14, Fiat/Lancia/Alfa Romeo 9.55523, Chrysler MS-7170, Iveco 18-1830, Ford ESD-M97B49-A, GM-Opel GME L1301, Saturn, JI Case JIC-501, MTU MTL 5048.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Green	Visual
Density at 20°C	> 1 g/cm³	ASTM D5931
Freezing point	< –34.5°C	ASTM D1177
pH	8.0–9.5	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	≥ 8 ml	ASTM D1121
Foaming characteristics at 88°C	< 35 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	–0.1

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

G11 coolant has a shelf life of 3 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1L 5L 10L

Description:

Premium-quality long-life product for cooling petrol and diesel engines in modern cars. Protects the engine against freezing, overheating, and cavitation corrosion. Formulated using Organic Additive Technology (OAT). G12 coolant is free of nitrites, amines, phosphates, silicates, borates, and 2-ethylhexanoic acid. Recommended replacement interval: every 250,000 km for passenger cars and every 500,000 km or 5 years for commercial vehicles.

READY TO USE COOLANT –35°C G12



Application:

The product protects car cooling systems at temperatures down to –35°C. Handle in accordance with the vehicle manufacturer's specifications.

Chemical nature:

Aqueous solution of ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, FVV HEFT R 443, AFNOR R 15/601, SAE J 1034, JASO M325, ÖNORM V5123, UNE 26361-88/1, FSD 8704, ASTM D3306, NATO S759. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 D&F, Mercedes-Benz MB 325.3, Mercedes-Benz MB 326.3, Mercedes-Benz Truck DTFR 29C110, Mercedes-Benz Truck DTFR 29D110, Ford WSS-M97B44-D, Cummins CES14603&14439, Cummins IS series N14, MAN 324 SNF, BMW GS94000, DAF 74002, MTU MTL5048, Deutz DQC CB-14, Fiat 9.55523, GM Chevrolet, Opel-GM GMW3420, GM Saab B0401065, GM Saturn, GM-Vauxhall GME L1301, GM-Vauxhall GMW3420, John Deere JDM H5, Iveco 18-1830, Renault-Nissan 41-01-001/S type D, Volvo Penta, Renault Trucks 41-01-001/Type D, Volvo Trucks – Volvo Coolant VCS.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Red	Visual
Density at 20°C	> 1 g/cm³	ASTM D5931
Freezing point	< –34.5°C	ASTM D1177
Boiling point	> 107°C	ASTM D1120
pH	8.0–9.5	ASTM D1287

Reserve alkalinity (0,1 HCl/10 ml)	≥ 8 ml	ASTM D1121
Foaming characteristics at 88°C	< 35 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	1.1	1.8	0.9	0.8	–0.9	1.2

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm^2/week
ASTM D3306 (max)	1.0
Typical	0.1

Compatibility with other coolants:

The product is fully miscible with other coolants and can be safely mixed with them. However, as G12 coolant employs an inhibitor type that is very different to that used in traditional mineral coolants, it is recommended to drain and flush cooling systems containing mineral coolants before refilling with G12 coolant. Failure to do so could significantly lower the performance and longevity of the product.

Storage:

G12 coolant has a shelf life of 5 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1L 5L 10L

READY TO USE COOLANT –38°C G12++



Description:

G12++ is an ethylene glycol-based long-life coolant with Lobrid Organic Additive Technology (Si-OAT). It combines the advanced aluminium protection associated with silicate additives with the extended life of OAT. This product is especially recommended for ICEs in light vehicles (MB and VW group Euro 6 engines), heavy vehicles (MB, MAN, Scania and Cummins Euro 6 engines), machinery (Liebherr Euro 6 engines), and agricultural tractors (MTU Claas engines). G12++ is miscible and compatible with coolants meeting VW specifications TL 774D (G12), TL 774F (G12+), and TL 774J (G13). Recommended replacement interval: every 250,000 km or 5 years for passenger cars and every 500,000 km for commercial vehicles.

Application:

This engine coolant protects car cooling systems at temperatures down to –38°C. Handle in accordance with the vehicle manufacturer's specifications.

Chemical nature:

Ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, FVV HEFT R 443, AFNOR R 15/601, SAE J 1034, CUNA NC 956-16, UNE 26361-88, ASTM D3306 / D4656 / D4985, NATO S759, E/L 1415C. Porsche/Volkswagen/Audi/Seat/Skoda/Lamborghini/Bentley TL 774 G (G12++), Daimler/Mercedes-Benz MB 325.5 and MB 325.6, MAN 324 Typ Si-OAT, Cummins CES 14603, Scania TB 1451.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Purple	Visual
Density at 20°C	> 1 g/cm³	ASTM D5931
Freezing point	< –38°C	ASTM D1177
pH	7.5–11.0	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	> 2.5 ml	ASTM D1121

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
TL 774 (max)	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 2
Typical	0.9	1.4	2.1	0.4	0.9	0.0

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm^2/week
ASTM D3306 (max)	1.0
Typical	0.4

ASTM D2809 Cavitation Corrosion and Erosion Characteristics of Aluminium Pumps

	Rating
ASTM D3306 limit	8 min.
Typical	10

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

Storage temperature: –38°C to +35°C. Protect from direct sunlight.

Available Pack Sizes



1L 5L

READY TO USE COOLANT –38°C G13



Description:

G13 provides the same exceptional cooling and antifreeze performance as G12++, but is manufactured using glycerin in addition to ethylene glycol. G13 is a long-life, ethylene glycol and glycerin-based coolant with Lobrid Organic Additive Technology (Si-OAT). The Lobrid technology provides optimal protection for all metallic engine parts, including aluminium and other non-ferrous components. High-performance additives protect against corrosion, scale formation, foaming, and performance degradation across a wide temperature range. The technology meets the requirements of G13 (VW TL 774 J) specifications and is compatible with coolants made for older specifications: G12 (VW TL 774 D), G12+ (VW TL 774 F), G12++ (VW TL 774 G). Especially suitable for the cooling systems in VW group passenger cars and light-duty vehicles when the G13 standard is required (Euro 6). Recommended replacement interval: every 250,000 km or 4–6 years for passenger cars and every 500,000 km for commercial vehicles.

Application:

The engine coolant protects car cooling systems at temperatures down to –38°C. Handle in accordance with the vehicle manufacturer's specifications.

Chemical nature:

Ethylene glycol, glycerol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

VW TL 774 J (G13), Mercedes-Benz MB 326.5, MAN 324 Typ Si-OAT, DAF MAT 74002, Cummins CES 14603, MTU MTL5058, Scania TB 1451, ASTM D3306 and D4985, SAE J1034, BS 6580, AFNOR NF R15-601, JIS K 2234, FVV Heft R 443, KSM 2142, CUNA NC 956-16, NATO S 759.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Purple	Visual
Density at 20°C	> 1 g/cm³	ASTM D5931
Freezing point (1:1)	< –38°C	ASTM D1177

pH (1:1)	7.5–11.0	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	> 2.5	ASTM D1121

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	0.9	1.4	2.1	0.4	0.9	0.1

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	0.4

ASTM D2809 Cavitation Corrosion and Erosion Characteristics of Aluminium Pumps

	Rating
ASTM D3306 limit	8 min.
Typical	10

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

Storage temperature: –38°C to +35°C. Protect from direct sunlight.

Available Pack Sizes



1L 5L

RIDEX PLUS



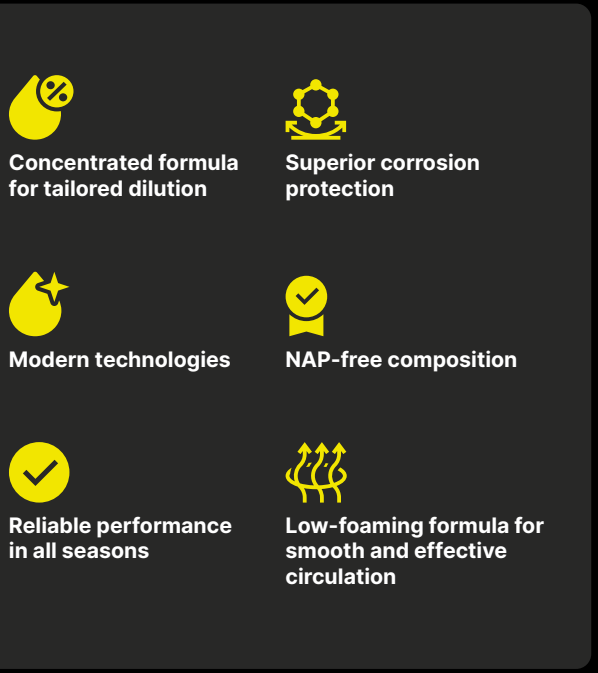
ANTIFREEZE CONCENTRATES

ANTIFREEZE CONCENTRATES

RIDEX PLUS antifreezes are high-performance coolant concentrates developed with IAT, OAT, and Lobrid Si-OAT technologies to support the demands of modern engine designs, including aluminium cooling systems. They deliver outstanding protection against freezing, overheating, and corrosion, while offering high thermal stability and supporting engine component cleanliness. The range includes formulations approved for a wide variety of vehicles, allowing customers to select the correct product and dilute it with water at the appropriate ratio to suit specific operating conditions.

ADVANTAGES

- Flexible dilution options
- Wide temperature range
- Strong corrosion protection
- Reduced deposit formation
- Consistent heat transfer performance
- Protection against foaming



The information provided in this product information sheet is intended to assist in understanding the properties and potential applications of the product. We reserve the right to modify product characteristics in line with ongoing technical developments. The most recent Safety Data Sheet (SDS) for this product can be downloaded from our website.

ANTIFREEZE CONCENTRATE G11

Description:

For cooling petrol and diesel engines in modern cars, buses, and trucks with a higher proportion of aluminium parts. G11 is a concentrated monoethylene glycol-based antifreeze with Inorganic Additive Technology (IAT). It is free of nitrites, amines, and phosphates (NAP-free). Recommended replacement interval: every 120,000 km or 3 years for passenger cars.



Application:

Before being added to the vehicle's cooling system, it should be diluted with deionised or demineralised water to the desired concentration. The proportions are indicated in the table below:

Concentrate	Water	Frost protection	Dilution (vol.)
60%	40%	–55°C	1.5:1
50%	50%	–37°C	1:1
40%	60%	–25°C	1:1.5

Chemical nature:

Ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, AFNOR R 15/601, AS 2108, SAE J 1034, JIS K 2234, CUNA NC 956-16, UNE 26-361, ÖNORM V 5123, ASTM D3306. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 C, MAN 324 Typ NF, Deutz DQC CA-14, Fiat/Lancia/Alfa Romeo 9.55523, Chrysler MS-7170, Iveco 18-1830, Ford ESD-M97B49-A, GM-Opel GME L1301, Saturn, JI Case JIC-501, MTU MTL 5048.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Blue	Visual
Density at 20°C	> 1 g/cm³	ASTM D4052
Freezing point (1:1)	< –37°C	ASTM D1177
Boiling point (1:1)	> 169°C	ASTM D1120

pH (1:1)	8.0–9.5	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	≥ 16 ml	ASTM D1121
Foaming characteristics at 88°C	< 35 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm^2/week
ASTM D3306 (max)	1.0
Typical	–0.1

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

G11 coolant concentrate has a shelf life of up to 3 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1.5L 5L

ANTIFREEZE CONCENTRATE G11

Description:

For cooling petrol and diesel engines in modern cars, buses, and trucks with a higher proportion of aluminium parts. G11 is a concentrated monoethylene glycol-based antifreeze with Inorganic Additive Technology (IAT). It is free of nitrites, amines, and phosphates (NAP-free). Recommended replacement interval: every 120,000 km or 3 years for passenger cars.



Application:

Before being added to the vehicle's cooling system, it should be diluted with deionised or demineralised water to the desired concentration. The proportions are indicated in the table below:

Concentrate	Water	Frost protection	Dilution (vol.)
60%	40%	–55°C	1.5:1
50%	50%	–37°C	1:1
40%	60%	–25°C	1:1.5

Chemical nature:

Ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, AFNOR R 15/601, AS 2108, SAE J 1034, JIS K 2234, CUNA NC 956-16, UNE 26-361, ÖNORM V 5123, ASTM D3306. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 C, MAN 324 Typ NF, Deutz DQC CA-14, Fiat/Lancia/Alfa Romeo 9.55523, Chrysler MS-7170, Iveco 18-1830, Ford ESD-M97B49-A, GM-Opel GME L1301, Saturn, JI Case JIC-501, MTU MTL 5048.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Green	Visual
Density at 20°C	> 1 g/cm³	ASTM D4052
Freezing point (1:1)	< –37°C	ASTM D1177
Boiling point (1:1)	> 169°C	ASTM D1120

pH (1:1)	8.0–9.5	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	≥ 16 ml	ASTM D1121
Foaming characteristics at 88°C	< 35 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	–0.1

Compatibility with other coolants:

The majority of coolants contain a balanced compound of corrosion inhibitors. Mixing coolants with different inhibitors may affect the anti-corrosion properties.

Storage:

G11 coolant concentrate has a shelf life of 3 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1.5L 5L

ANTIFREEZE CONCENTRATE G12

Description:

Premium-quality long-life product for cooling petrol and diesel engines in modern cars. Protects the engine against freezing, overheating, and cavitation corrosion. Formulated using Organic Additive Technology (OAT). Free of nitrites, amines, phosphates, silicates, borates, and 2-ethylhexanoic acid. Recommended replacement interval: every 250,000 km for passenger cars and every 500,000 km or 5 years for commercial vehicles.



Application:

Before being added to the vehicle's cooling system, it should be diluted with deionised or demineralised water to the desired concentration. The proportions are indicated in the table below:

Concentrate	Water	Frost protection	Dilution (vol.)
60%	40%	–55°C	1.5:1
50%	50%	–38°C	1:1
40%	60%	–25°C	1:1.5

Chemical nature:

Ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, FVV HEFT R 443, AFNOR R 15/601, SAE J 1034, JASO M325, ÖNORM V5123, UNE 26361-88/1, FSD 8704, ASTM D3306, ASTM D4656, ASTM D4985, NATO S759. Porsche/Volkswagen/Audi/Seat/Skoda TL 774 F, Mercedes-Benz MB 325.3, Mercedes-Benz MB 326.3, Mercedes-Benz Truck DTFR 29C110, Mercedes-Benz Truck DTFR 29D110, Ford WSS-M97B44-D, Cummins CES14603&14439, Cummins IS series N14, MAN 324 SNF, BMW GS94000, DAF 74002, Deutz DQC CB-14, Fiat 9.55523, GM Chevrolet, Opel-GM GMW3420, GM Saab B0401065, GM Saturn, GM-Vauxhall GME L1301, GM-Vauxhall GMW3420, John Deere JDM H5, Iveco 18-1830, Renault-Nissan 41-01-001/S type D, Volvo Penta, Renault Trucks 41-01-001/Type D, Volvo Trucks - Volvo Coolant VCS.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Red	Visual
Density at 20°C	> 1 g/cm³	ASTM D5931

Freezing point (1:1)	< –38°C	ASTM D1177
Boiling point (1:1)	> 172°C	ASTM D1120
pH (1:1)	8.0–9.0	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	≥ 5 ml	ASTM D1121
Foaming characteristics at 88°C	45 ml/2 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	2	2	4	2	1	3

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	–0.1

Compatibility with other coolants:

The product is fully miscible with other coolants and can be safely mixed with them. However, as G12/G12+ coolant employs an inhibitor type that is very different to that used in traditional mineral coolants, it is recommended to drain and flush cooling systems containing mineral coolants before refilling with diluted G12/G12+. Failure to do so could significantly lower the performance and longevity of the product.

Storage:

G12 coolant concentrate has a shelf life of 5 years when stored in airtight containers at temperatures not exceeding 35°C. Protect from direct sunlight.

Available Pack Sizes



1.5L 5L

ANTIFREEZE CONCENTRATE G12++

Description:

G12++ is an ethylene glycol-based long-life antifreeze with Lobrid Organic Additive Technology (Si-OAT). This technology combines the advanced aluminium protection associated with silicate additives with the extended life of OAT technology. This product is especially recommended for light vehicles, heavy vehicles (MB, MAN, Scania, Cummins), public works machinery (Liebherr), and agricultural tractors (MTU Claas engines). It is free from borates, phosphates, nitrites, amines and 2-ethylhexanoic acid. Recommended replacement interval: every 250,000 km or 5 years for passenger cars and every 500,000–1,000,000 km for commercial vehicles.



Application:

Before being added to the vehicle's cooling system, it should be diluted with deionised or demineralised water to the desired concentration. The proportions are indicated in the table below:

Concentrate	Water	Frost protection	Dilution (vol.)
60%	40%	–55°C	1.5:1
50%	50%	–38°C	1:1
40%	60%	–25°C	1:1.5

Chemical nature:

Ethylene glycol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, FVV HEFT R 443, AFNOR R 15/601, SAE J 1034, JASO M325, JIS K 2234, KSM 2142, CUNA NC 956-16, UNE 26361-88, ASTM D3306, ASTM D4656, ASTM D4985, NATO S759, AS 2108. Porsche/Volkswagen/Audi/Seat/Skoda/Lamborghini/Bentley TL 774 G (G12++), Deutz DQC CC-14, Daimler/Mercedes-Benz MB-325.5 and 326.5, Daimler/Mercedes-Benz Truck DTFR 29C120 and DTFR 29D120, MAN 324 Typ Si-OAT, Cummins CES 14603, Scania TB 1451, Liebherr Min LH-01-COL3A.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Purple	Visual
Density at 20°C	> 1.1 g/cm³	ASTM D5931

Freezing point (1:1)	< –38°C	ASTM D1177
Boiling point (1:1)	171°C	ASTM D1120
pH (1:1)	8.0-9.0	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	> 5	ASTM D1121
Foaming characteristics at 88°C	40 ml/1 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
TL 774 (max)	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 2
Typical	1.2	1.1	1.3	0.4	-1.0	-0.9

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm^2/week
ASTM D3306 (max)	1.0
Typical	0.1

Compatibility with other coolants:

The product is fully miscible with other coolants and can be safely mixed with them. However, we advise against mixing organic additive-based products with traditional mineral-containing coolants as optimum performance and service life cannot be guaranteed in such cases.

Storage:

G12++ coolant concentrate has a shelf life of 5 years when stored in airtight containers at a maximum temperature of 35°C. Protect from direct sunlight.

Available Pack Sizes



1.5L 5L

ANTIFREEZE CONCENTRATE G13

Description:

G13 is an ethylene glycol- and glycerin-based extended-life antifreeze with Lobrid Organic Additive Technology (Si-OAT). This technology combines the fast-healing aluminium protection associated with silicate additives and the extended life of OAT. High-performance additives protect against corrosion, scale formation, foaming, and performance degradation across a wide temperature range. G13 antifreeze should be used in the cooling systems of the latest generation of VW Group, MB, and MAN combustion engines. It is free from borates, phosphates, nitrites, amines, and 2-ethylhexanoic acid. Recommended replacement interval: every 250,000 km or 4–6 years for passenger cars and every 500,000–1,000,000 km for commercial vehicles.



Application:

Before being added to the vehicle's cooling system, it should be diluted with deionised or demineralised water to the desired concentration. The proportions are indicated in the table below:

Concentrate	Water	Frost protection	Dilution (vol.)
60%	40%	–50°C	1.5:1
50%	50%	–37°C	1:1
40%	60%	–25°C	1:1.5

Chemical nature:

Ethylene glycol, glycerol with anti-corrosion and anti-foaming additives.

Standards and requirements met:

BS 6580, FVV HEFT R 443, AFNOR R 15/601, SAE J 1034, JASO M325, JIS K 2234, KSM 2142, CUNA NC 956-16, UNE 26361-88, ASTM D3306, ASTM D4656, ASTM D4985, NATO S759, AS 2108. Porsche/Volkswagen/Audi/Seat/Skoda/Lamborghini/Bentley TL 774 J (G13), Deutz DQC CC-14, Daimler/Mercedes-Benz MB-325.5 and 326.5, Daimler/MB Truck DTFR 29C120 & DTFR 29D120, MAN 324 Typ Si-OAT, Cummins CES 14603, Scania TB 1451, Liebherr Min LH-01-COL3A.

Physical properties:

Appearance	Transparent liquid free of mechanical impurities	Visual
Colour	Purple	Visual
Density at 20°C	> 1.1 g/cm³	ASTM D5931

Freezing point (1:1)	< –36.5°C	ASTM D1177
Boiling point (1:1)	> 108°C	ASTM D1120
pH (1:1)	8.0–9.0	ASTM D1287
Reserve alkalinity (0,1 HCl/10 ml)	> 5	ASTM D1121
Foaming characteristics at 88°C	40 ml/1 s	ASTM D1881

Anti-corrosion properties:
ASTM D1384 Glassware Corrosion Test Results

	Weight loss mg/coupon					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
ASTM D3306 (max)	10	30	10	10	10	30
Typical	0.9	1.4	2.1	0.4	0.9	0.1

ASTM D4340 Aluminium Corrosion Under Heat Rejection Conditions

	Weight loss mg/cm²/week
ASTM D3306 (max)	1.0
Typical	0.4

Compatibility with other coolants:

The product is readily miscible with other coolants. However, we advise against mixing organic additive-based products with traditional mineral-containing coolants since optimum performance and service life can only be guaranteed by using G13 antifreeze.

Storage:

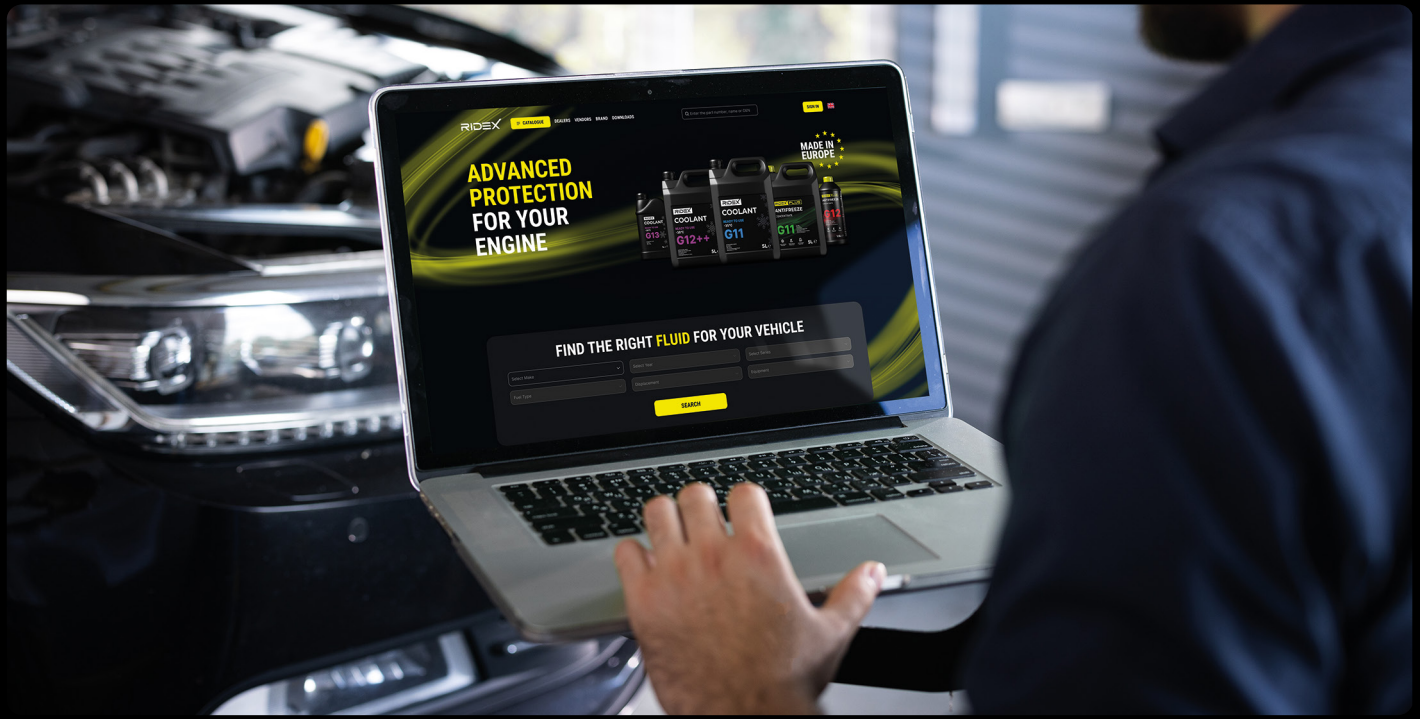
G13 antifreeze concentrate has a shelf life of 5 years when stored in airtight containers at a maximum temperature of 35°C. Protect from direct sunlight.

Available Pack Sizes



1.5L 5L

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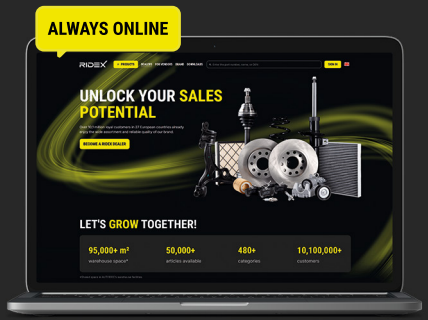
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