



## TECHNICAL DATA SHEET V082021

# Coolant XCL G11 -35°C

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Date: 2023.06.16 09:09:50 EEST  
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Location: Moldova



### DESCRIPTION

Latest generation XCL G11 -35 ° C ready-for-use coolant, *Hybrid*, based on monoethylene glycol and passivation additives. It provides optimum protection against freezing, heating and corrosion. At the request of certain manufacturers, this liquid is formulated by combining organic (carboxylate) and mineral technologies. Absence of borate, nitrite, amine and phosphate.

### APPLICATION

Ready-for-use.

Recommended for high-tech engines (passenger cars, duty vehicles and trucks), where at high temperature the protection of aluminum is important. It is compatible and miscible with other MEG-based coolants.

### SPECIFICATIONS

This product offers the following performance level:

BMW	GS94000
Mercedes-Benz	325.0 / 325.2
MAN	324 Typ NF
Audi-VW-Porsche-Skoda	TL-774 C = G11
Fiat	9.55523
PSA	B71 5110
Iveco	18-1830 Standard
Ford	ESD-M97B49-A
Volvo	128 6083/002
Opel	GME L1301/6901 599 (Saab)
John Deere	JDMH5



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MTU	MTL5048
CHRYSLER-JEEP	MS7170 (MOPAR)
LADA TTM VAZ	1.97.717-97
NF-R	15-601
ASTM	D3306/D4656
SAE	J1034
FSD	8704
BS	6580
JAPAN Std	JIS K2234
DCSEA	615-C
CUMMINS	85T8-2

## PROPERTIES

- Long-lasting action.
- Homogeneous protective film.
- High-performance mineral stabilizers, preventing losses and freeze formation.
- Eco-friendly. Free from borate, nitrite, amines, and phosphates.
- Very high aluminum protection.

## TECHNICAL DATA

	Antifreeze	ASTM 3306	Method
MEG	93,5 % w/w	Base	
Inhibitors	5,4 % w/w		
Water content	3,5% w/w max	5% w/w max	ASTM D1123
Ash content	1,3% w/w typ	5% w/w max	ASTM D1119
Colour	Blue		
Density, 20°C	1.125	1.11 à 1,145	ASTM D 5931
Boiling point	174°C typ	>163°C	ASTM D1120
Alkalinity reserve (pH 5.5)	16.0	report	ASTM D1121
pH at 20°C	7.2 typ	7.5 to 11	ASTM D1287
Refractive index, 20°C	1432 typ		ASTM D1218
Freezing point 40%v/v	#-28°C		ASTM D1177
Freezing point 50%v/v	#-37°C	<-35°C	ASTM D1177

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## RECOMMENDATIONS



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## TECHNICAL DATA SHEET V082021

Handling : any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

Storage : it is recommended to use the product within 36 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

### REFERENCES & AVAILABILITIES

6513	3x5L
6515	20L
6518	200L



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T: (+32) (0) 69 59 03 60

[www.bardahl.fr](http://www.bardahl.fr)  
[www.bardahloils.com](http://www.bardahloils.com)



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## Coolant XCL G12/G12+ -37°C



### DESCRIPTION

Latest generation antifreeze formulated from organic OAT technology (Organic Acid Technology), based on mono-ethylene glycol and passivation additives. It provides long-lasting aluminum protection against heating, cavitation and corrosion at high temperatures. BARD AHL XCL G12/G12+ -37°C is free from silicate and nitrite, and limits cloudiness, deposits and precipitates.

### APPLICATION

Ready-for-use.

Recommended for the last generation engines. Cannot be mixed with traditional mineral-based formulas. The formulation is particularly suitable for VOLKSWAGEN, AUDI and SKODA engines. BARD AHL XCL G12/G12+ -37°C meets most of manufacturer specifications that require OAT technology.

### SPECIFICATIONS

This product offers the following performance level:

VW, AUDI, SKODA	TL-774 D (G12) et F (G12+)
FORD	WSS-M97B44-D
MB	326.3
RENAULT	41-01-001 Type D
GM	6277M
MAN	324 type SNF
MAZDA	MEZ MN 121 D
VOLVO	OAT
CLAAS	OAT



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T: (+32) (0) 69 59 03 60

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DEUTZ	0199-99-115
JOHN DEERE	JDM H5
KOMATSU	07.892 (2009)
DAF	74002
FIAT-LANCIA	9.55523
JAGUAR	CMR 8229
ASTM	D3306 / D4656 / D4985
BS	6580 :1992
NF	R15601 sauf réserve alcalinité
AS	2108
SAE	J-1034
FFV	Heft R443
CUNA	NC 956-16
UNE	26361-88
NATO	S-759

## PROPERTIES

- Long-lasting action.
- Homogeneous protective film.
- Eco-friendly. Free from borate, nitrite, amines, and phosphates.
- Very high aluminum protection.

## TECHNICAL DATA

	Antifreeze	ASTM 3306	Method
Ash content	1.1 %w/w typ	5% w/w max	ASTM D1119
Water content	5% max	5% w/w max	ASTM D1123
Colour	Pink		
Density, 20°C	1.113		ASTM D 5931
Boiling point	Typ>180	>163°C	ASTM D1120
Alkalinity reserve (pH 5.5)	6.2	report	ASTM D1121
pH at 20°C	8.6	7.5 à 11	ASTM D1287
Refractive index, 20°C	1430		ASTM D1218
Freezing point 40%v/v	-30°C (-27°C)		ASTM D1177



## TECHNICAL DATA SHEET V082021

Freezing point 50%v/v	-40°C	<-35°C	ASTM D1177
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### RECOMMENDATIONS

**Handling :** any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

**Storage :** it is recommended to use the product within 36 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

### REFERENCES & AVAILABILITIES

8511	12x1L
8513	3x5L
8515	20L
8518	200L



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Rue du Mont des Carliers, 3 ZI TOURNAI Ouest, 2  
T: (+32) (0) 69 59 03 60

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[www.bardahloils.com](http://www.bardahloils.com)



## Certificate of analysis

Date : 14/06/23  
Item code : 6513  
Item name : LR XCL G11 -35°C  
Batch n° : 261006-260641  
Packaging : 5L  
Expiration date : 04/2033

Specification name	Standard	Unit	Minimum	Maximum	Results	Validation
Appearance	Visual	-	Clear	Clear	Clear	Conform
Color	Visual	-	Dark green	Dark green	Dark green	Conform
Density at 20°C	ASTM D4052	g/cm³	1.070	1.080	1.074	Conform
pH	ASTM D1287		8.30	8.90	8.52	Conform
Freezing point	ASTM D1177	°C		-35.0	-38	Conform

QC LABORATORY - SADAPS BARD AHL

Editor (QC Laboratory Technician) : ODE

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Date: 2023.06.16 09:11:08 EEST  
Reason: MoldSign Signature  
Location: Moldova



Validator (QC Laboratory Manager) : K. Vanden Bogaerde



SADAPS BARD AHL CORPORATION S.A. au capital de 200 000€  
Siège : SADAPS BARD AHL – 71/8 Avenue Guynemer  
Adresse postale : BP 91049 – 59701 MARCQ EN BAROEUL CEDEX 1 – France  
Tél. : +33 (0)3 10 38 38 38 – FAX : +33 (0)3 20 82 97 87  
SIRET 475 484 283 00035 – TVA FR 58 475 484 283



SADAPS BARD AHL ADDITIVES & LUBRICANTS S.A. au capital de 2 000 000€  
Z.I Tournai Ouest 2 – Rue du Mont des Carliers, 3 – B-7522 TOURNAI  
Tél. : +32 (0)69 59 03 60 – FAX : +32 (0)69 59 03 61  
R.C. TOURNAI 89060 – TVA BE 477 929 886



## Certificate of analysis

Date : 14/06/23  
Item code : 8518  
Item name : LR XCL G1212+ -37°C  
Batch n° : 262469-261948  
Packaging : 200L  
Expiration date : 05/2033

Specification name	Standard	Unit	Minimum	Maximum	Results	Validation
Appearance	Visual	-	Clear	Clear	Clear	Conform
Color	Visual	-	Fluorescent pink	Fluorescent pink	Fluorescent pink	Conform
Density at 20°C	ASTM D4052	g/cm³	1.065	1.075	1.068	Conform
pH	ASTM D1287		7.50	9.00	8.49	Conform
Freezing point	ASTM D1177	°C		-35.0	-35.0	Conform

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Editor (QC Laboratory Technician) : ODE

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Location: Moldova



Validator (QC Laboratory Manager) : K. Vanden Bogaerde



SADAPS BARD AHL CORPORATION S.A. au capital de 200 000€  
Siège : SADAPS BARD AHL – 71/8 Avenue Guynemer  
Adresse postale : BP 91049 – 59701 MARCQ EN BAROEUL CEDEX 1 – France  
Tél. : +33 (0)3 10 38 38 38 – FAX : +33 (0)3 20 82 97 87  
SIRET 475 484 283 00035 – TVA FR 58 475 484 283



SADAPS BARD AHL ADDITIVES & LUBRICANTS S.A. au capital de 2 000 000€  
Z.I Tournai Ouest 2 – Rue du Mont des Carliers, 3 – B-7522 TOURNAI  
Tél. : +32 (0)69 59 03 60 – FAX : +32 (0)69 59 03 61  
R.C. TOURNAI 89060 – TVA BE 477 929 886