

ACDelco

ALL SEASONS COOLANT

FOR MOST MAKES & MODELS



DESCRIPTION

ACDelco All Seasons Coolant is used as a cooling and heat transfer fluid in internal combustion engines. Excess heat is transferred via the fluid to the radiator where the mixture is cooled by means of airflow. To protect the engine and cooling system from corrosion and frost damage, a coolant concentrate is added to the cooling water.

ACDelco All Seasons Coolant is a coolant concentrate based on OAT technology in ethylene glycol. ACDelco All Seasons Coolant is free from potentially harmful additives such as nitrites, amines and phosphates and as such contributes to a safer environment.

FEATURES & BENEFITS

ACDelco All Seasons Coolant offers following benefits to the user:

- Corrosion protection, including non-ferrous metals
- Frost protection
- Boiling protection
- Miscibility with other engine coolants
- Hard water stability thanks to absence of silicates and phosphates

APPLICATION

ACDelco All Seasons Coolant provides year-round frost and corrosion protection. It is recommended to use at least 33 vol. % of ACDelco All Seasons Coolant in the cooling solution. This concentration will provide a freezing point down to -18°C. Concentrations higher than 70 vol. % are not recommended.

Dilution vol %	Freeze Point °C (ASTM D1177)	Dilution vol %	Freeze Point °C (ASTM D1177)
35.4	-20	48.9	-35
40.3	-25	52.5	-40
44.8	-30	55.8	-45

PROOF OF PERFORMANCE & STANDARDS

More than 200,000 tons of ACDelco All Seasons Coolant has been sold into the market (This is equivalent to filling approximately 50 million passenger car cooling systems). ACDelco All Seasons Coolant has proven to offer protection for in excess of 80,000km in automotive applications.

ACDelco All Seasons Coolant conforms to Standard BS 6580:2010, ASTM D3306 as well as to the requirements of NB/SH/T 0521-2010 and GB 29743-2013.

For your nearest ACDelco Automotive Parts Stockist
visit www.acdelco.co.nz or www.acdelco.com.au

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COMPATIBILITY & MIXABILITY

For optimal performance and controlled quality, we recommend the use of deionised or distilled water to prepare the ready-to-use dilutions.

RECOMMENDED BY ACDELCO FOR USE IN APPLICATIONS REQUIRING:

- AAMVA Freightliner
- ASTM D 3306 incl. D 4340
- ASTM D 4985
- Chrysler MS-7170
- Cummins 90T8-4
- Detroit Diesel Corp.
- Federal Specification A-A-870
- Ford ESE-M97B44-A
- General Motors GM1825M
- General Motors GM1899M
- J.I. Case JIC501
- John Deere H24B1
- John Deere H24C1
- Mack Truck
- PACCAR
- SAE J1034
- TMC of ATA RP-302A

AVAILABILITY

ACDelco All Seasons Coolant is available in various pack options. Sizes as follows:

- PN 19375289 All Seasons Green 1 Litre
- PN 19375290 All Seasons Green 5 Litre
- PN 19375291 All Seasons Green 20 Litre
- PN 19284966 All Seasons Green 205 Litre

Please contact your local ACDelco Parts Stockist on availability of pack sizes to suit your application.

STORAGE REQUIREMENTS

The product should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimized.

Further, it is strongly advised not to expose the coolant in translucent packages to direct sunlight because this can degrade the colour dyes present in the coolant, and result in fading of the colour or discoloration over time. This reaction can be accelerated if coupled with high ambient temperatures. It is therefore advisable to store coolant filled in translucent packages indoors to avoid this issue. ACDelco All Seasons Coolant can be stored for minimum 3 years in unopened containers without any effect on the product quality or performance. It is strongly recommended to use new containers and not recycled ones.

As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.

TOXICITY & SAFETY

For Toxicity and Safety Data we refer to the Material Safety Data Sheet. The information and advice given should be observed and due attention should be given to the precautions necessary for handling chemicals. This product is available to download from our website.

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APPENDIX - TECHNICAL INFORMATION

SPECIFICATION LIMITS				
DESCRIPTION	ACDELCO ALL SEASONS COOLANT	BS 6580	NB/SH/T 0521-2010	METHOD
Appearance	clear liquid	clear liquid		Visual
Density 20°C, kg/l	1.112 typ	-	1.107 – 1.142	ASTM D1122 SH/T0068
Refractive Index, 20°C	1.430 typ	-		ASTM D1218
pH (33 vol %)	8.4 typ	-	7.5 – 11.0	ASTM D1287 SH/T0069
Freezing point, °C (50 vol %)	-36.6 typ	-33.0 max	-36.4 max	ASTM D1177 SH/T0090
Reserve alkalinity (pH 5.5)	2.9 typ	-		ASTM D1121
Foaming properties at 88°C				
Foam (ml)	50 max	50	150	ASTM D1881 SH/T0066
Break Time (sec)	5 max	5	5	

APPENDIX - TECHNICAL INFORMATION

SPECIFICATION LIMITS				
DESCRIPTION	50% Dilution	40% Dilution	30% Dilution	METHOD
pH	8.5	8.4	8.4	ASTM D1287
Foaming Properties at 25°C				
Break Time	50ml max.	-	-	ASTM D1881
Foaming Properties at 88°C				
Break Time	5 sec max.	-	-	ASTM D1881
Freezing Point	-36°C typ.	-25°C typ.	-18°C typ.	ASTM D3321*
Density, 20°C, kg/l	1.066 typ.	1.054 typ.	1.044 typ.	ASTM D5931
Reserve alkalinity (pH 5.5)	1.6 typ.	1.3 typ.	1.0 typ.	ASTM D1121
Refractive Index, 20°C	1.384 typ.	1.374 typ.	1.367 typ.	ASTM D1218

*Freezing point measurement by means of a hand refractometer

BS 5117: 2.2 HOT IMMERSION GLASSWARE CORROSION TEST

ASTM D1384 is almost identical to BS 5117:2.2

WEIGHT LOSS IN MG/COUPON ¹						
Product	Brass	Copper	Solder	Steel	Cast Iron	Aluminium
ASTM D3306 (max)	10	10	30	10	10	30
BS 6580 : 1992 (max)	10	10	15	10	10	15
ACDelco All Seasons Coolant typ.	0.5	0.5	4.9	0.7	0.3	3.0

¹Weight loss AFTER chemical cleaning acc. to ASTM procedure. Weight gain is indicated by a - sign.

ASTM D4340 ALUMINIUM HEAT TRANSFER TEST

ASTM D4340 is almost identical to BS 5117:2.6

WEIGHT LOSS IN MG/CM ² /WEEK	
Product	Weight Loss
ASTM D3306 (max)	1.0
BS 6580 (max)	1.0
ACDelco All Seasons Coolant typ.	0.3