

AC-12 HEAVY DUTY ELC

AC-12 is a Premium Australian Formulated and Manufactured Long-Life Heavy-Duty Coolant.

For use in Light Commercial, On/Off Road Transportation, Mining, Marine, and Stationary Engine Applications. Specifically Formulated to Caterpillar® EC-1 Specification.

PRODUCT INFORMATION

AC-12 is a Premium Quality, Fully Formulated Long-Life Anti-freeze / Anti-boil Coolant Available as a Concentrate or Premixed - Ready to Use - Product.

AC-12 is Formulated with Australian Made Carboxylate Technology Inhibitors Boosted with Nitrite and Molybdate and Contains no Silicates, Borates, Phosphates, Nitrates or Amines. As is Required by Many OEMs and is Specified by ASTM D6210 and Caterpillar EC1.

AC-12 contains 90% High Grade Mono-Ethylene Glycol with Australian Made Premium Hybrid OAT Inhibitors, Ensuring Ultimate Corrosion Protection for Cast Iron and Wet Sleeve Cylinder Liners.

AC-12 Protects all Cooling Systems and Heat Exchange Metals, Plastics, Soft Seals, and Rubbers Found in Modern Cooling Systems.

AC-12 is Compatible with Many OEM Factory Filled Coolants and Can Be Used for Top-Up in Mixed Fleet Operations.

BENEFITS

- Australian Formulated and Manufactured to CAT® EC-1
- Latest Generation Hybrid OAT Technology with Nitrite and Molybdate
- Borate, Phosphate, Silicate and Amine Free
- Appropriate for Light Commercial, Heavy Duty & Industrial Applications
- Mixed Fleet Suitable, meets OEM Performance Specifications
- Extended Water Pump Seal Service Life (Silicate Free)
- Superior Alloy Metal Hot Spot Corrosion Protection
- Protects Wet Sleeve Liners from Cavitation Erosion
- Extended Service Life

SERVICE LIFE

Equipment Type	Maximum Service Life
Light Commercial	8 years / 1,000,000km
Heavy Duty Engines	8years / 1,250,000km / 15,000hrs
Marine & Stationary	8 years / 32,000hrs

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BLENDING

Equipment Type

Concentration

Light Commercial	33-50% by Volume
Heavy Duty Engines	50% by Volume
Marine & Stationary	50% by Volume

TYPICAL PROPERTIES

Appearance	Mobile Liquid
Colour	Red *
pH (50/50 vol/vol):	7.7-8.6
Specific Gravity:	1.07 kg/ (Concentrate)
Glycol by Weight (gm/L):	1.0035
Freezing Point:	-36.0°C (50% by Vol.)
Boiling Point:	108°C (50% by Vol.)
Glassware Corrosion Test ASTM D1384	Pass (ASTM D-1384)
Aluminium Corrosion Test ASTM D4340	Pass (ASTM D-4340)
Water Pump Cavitation Test ASTM D2809	Pass (ASTM D-1881)
Cummins Anti Scale Test per AES14603	Pass (per AES 14603)



*Custom Dyed Products Can Be Supplied on Request, MOQs apply.

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TEST RESULTS

ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

Allowable Weight Loss	AC-12 Result
1.0mg / cm ² / week	-0.01mg (gain)

ASTM D2809 - CAVIATION EROSION CORROSION

Rating Minimum	AC-12 Result
8	8

ASTM D 1384 - GLASSWARE CORROSION TEST

Metal	Allowable Weight Loss	Typical Weight Loss
Copper	10mg / coupon	0.00
Solder	30mg / coupon	0.05
Brass	10mg / coupon	0.01
Steel	10mg / coupon	0.00
Cast Iron	10mg / coupon	0.03
Aluminium	30mg / coupon	0.14

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SPECIFICATION

Heavy Duty

AC-12 Coolant is Recommended Where the Following Performance Levels are Required.

ASTM D-3306	DAF (742002, BTPS 606A, DCEA 615)	MAN (324 Type SNF / 248)
ASTM D-4985	Detroit Diesel® (DFS93K217, 7SE298)	Mercedes Benz® (DBL 7700)
ASTM D-6210	EMD M.I. 1748E	MTU (MTL 5048)
ASTM D-5216	Freightliner 48 - 22880	Navistar®
Bergen Engines (2.12.01)	GM® 1899	PACCAR®
Case New Holland®	Iveco® Cursor Engine	Saab Scania® 6901
Caterpillar® EC-1	Japanese JS K 2234	SAE J 1034 and JASO M 324
Caterpillar® ELC	Jenbacher (TA1000-0201)	TMC RP-330
CID - A - A - 52624	John Deere® (JDM H24, 8650-5)	TMC RP-338 Extended Life
Cummins CES (3666132, 14439, 14603)	Kenworth ALLCool	Waukesha 4-1974D
Cummins ES Compleat	Komatsu® AF-NAC (KES 07.892 2009)	Volvo® (Spec No. 1286083)

Meets the phosphate-free requirements of European manufacturers

Meets the silicate-free requirements of Japanese manufacturers

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STORAGE & HANDLING

AC-12 should be stored in ambient temperature conditions between -20°C and 35°C, preferably indoors and out of direct sun. Discolouration of the dye additives may occur after extended exposure to UV light. This discolouration will not negatively impact the performance of the inhibitor package.

Shelf life is expected to exceed 5 years when stored as per the above directions.

Galvanised steel should not be used for the storage or handling of coolants.

HEALTH & SAFETY

AC-12 contains mono-ethylene glycol which is harmful if swallowed. If swallowed do not induce vomiting and contact Poisons Information Centre (Australia 13 11 26) NZ 0800 764 766) or a doctor immediately.

Avoid eye and skin contact. If contact with skin or eyes occur remove any contaminated clothing and flush skin or eyes with running water for at least 15 mins. Contact Poisons Information Centre (**Australia 13 11 26 / NZ 0800 764 766**) or a doctor for further recommendations.

PRODUCT CODES / QUANTITIES

Available AC-12 Concentrate	Pack Size	Pack	Quantity
A/AC12/5	5L	Bottle	Carton (4)
A/AC12/20	20L	Cube	
A/AC12/200	200L	Drum	
A/AC12/IBC	1000L	IBC	

Available AC-12-50 Premix	Pack Size	Pack	Quantity
A/AC12-50/5	5L	Bottle	Carton (4)
A/AC12-50/20	20L	Cube	
A/AC12-50/200	200L	Drum	
A/AC12-50/IBC	1000L	IBC	

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