

AC-1 COOLANT

AC-1 is a Premium Australian Formulated and Manufactured Long-Life Organic Coolant

For use in Automotive, Light Commercial, On/Off Road Transportation, Mining, Marine, Stationary Engine, and Industrial Cooling Applications

PRODUCT INFORMATION

AC-1 is a Premium Quality, Latest Generation Organic, Long-Life Glycol Free Coolant Available as a Concentrate or Premixed - Ready to Use - Product.

AC-1 is Formulated with Australian Made Carboxylate Technology Inhibitors and Contains no Silicates, Borates, Phosphates, Nitrites, Nitrates or Amines (NAPS-Free). As is Required by Many OEMs and Mandated by Many Countries.

AC-1 is Manufactured with Premium OAT Inhibitors and Demineralized Water, Ensuring Ultimate Corrosion Protection and Extended Service Life.

AC-1 Provides Super-Efficient Heat Transfer when Compared to Traditional Antifreeze / Anti-boil (AFAB) coolants. The Glycol Free Formula is up to 25-40% More Efficient at Removing Heat from Cooling Systems.

AC-1 Protects all Cooling Systems and Heat Exchange Metals, Plastics, Soft Seals, and Rubbers Found in Modern Cooling Systems and Provides Superior Cavitation, Corrosion and Wet-Sleeve Liner Pitting Protection.

BENEFITS

- Australian Formulated and Manufactured
- Latest Generation OAT Technology
- NAPS-Free
- Appropriate for Light Duty, 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

SERVICE LIFE

Equipment Type	Maximum Service Life
Automotive	10 years / 250,000km
Heavy Duty Engines	10 years / 1,250,000km / 24,000hrs
Marine & Stationary	10 years / 34,000hrs

BLENDING

Equipment Type	Concentration
Automotive	5% by Volume
Heavy Duty Engines	7-10% by Volume
Marine & Stationary	7-10% by Volume

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TYPICAL PROPERTIES

Appearance	Mobile Liquid
Colour	Dark Green / Red *
pH (Undiluted):	9.00-9.70
Specific Gravity:	1.05 – 1.08
Boiling Point:	>100°C
DG Class:	Non-Dangerous Goods
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)

Non DG



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

TEST RESULTS

ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

Allowable Weight Loss	AC-1 Result
1.0mg / cm ² / week	0.25mg

ASTM D3809 – CAVITATION EROSION CORROSION

Rating Minimum	AC-1 Result
8	9

ASTM D 1384 - GLASSWARE CORROSION TEST

Metal	Allowable Weight Loss	Typical Weight Loss
Copper	10mg / coupon	0.8
Solder	30mg / coupon	2.4
Brass	10mg / coupon	0.1
Steel	10mg / coupon	-1.0
Cast Iron	10mg / coupon	-1.3
Aluminium	30mg / coupon	13

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SPECIFICATIONS

Light Duty

AC-1 Coolant is Recommended Where the Following Performance Levels are Required.

AS 2108.1 : 2004 Type A	Daewoo - Ethylene Glycol Coolant	Lexus Toyota - Super LL Coolant
AFNOR NFR 15-601	Daihatsu - Ethylene Glycol Coolant	Mazda - Ethylene Glycol Coolant,
ASTM D3306, D4656, D4985	Dodge - Mopar HOAT	Mazda - FL22
BS 6580	FIAT - Paraflu UP	Mercedes Benz 325.0, 326.0
SAE J1034, SAE J1941	Ford - ESE M97B44-A, WSS M97B44	Mitsubishi - Long Life Coolant
Castrol Antifreeze NF	Ford - ESE M97-B18C, ESE	Nissan - EG Long Life Coolant
Caltex CX Engine Coolant	Glysantin G05, G12++, G30, G33, G34	Nissan - NES 5059 LLC, NES M 5509
GM 1825 M	Holden - GM6277M, GM1899M	Peugeot - Procor 2000 Glysantin G33
GM 1899 M	Holden - HN1897, HN2217	Porsche 000 043 203 78
Alfa Romeo - Paraflu UP	Holden HN2043	Renault - EG Long Life Coolant D
Audi Skoda Volkswagen - G12 G13	Honda Longlife Type 2 All Season	Subaru - Super Long-Life Coolant
BMW N 600 69.0	Hyundai - Ethylene Glycol Coolant	Suzuki - Ethylene Glycol Coolant
Citroen 9979.70/71/72	Jaguar - WSS-M97B44-A	Toyota - K2601G, K2601-1G
Daimler Chrysler MS-7170	Kia - Ethylene Glycol Coolant	Volvo
Daimler Chrysler MS-976	Land Rover Ethylene Glycol Coolant	VW - G12+ , G12, G11, TL-774-C

Meets the phosphate-free requirements of European manufacturers

Meets the silicate-free requirements of Japanese manufacturers

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SPECIFICATION

Heavy Duty

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AFNOR NFR 15-601	Jenbacher (TA1000-0201)
ASTM D3306, D6210	John Deere (JDM H5)
ASTM D4656, D4985	Kenworth ALLCoo
Bergen Engines (2.12.01)	Komatsu (KES 07.892 2009)
BS 6580:2010	Liebherr (MD 1-36-130)
Caterpillar (1 EO 535, EC-1)	Mack (014 GS 17009)
Cummins CES (3666132, 14439, 14603)	MAN (324 Type SNF / 248)
DAF (742002)	Mercedes Benz (325.0)
DAF (BTPS 606A)	Mercedes Benz (325.5)
DAF (DCEA 615)	Mitsubishi FUSO Genuine Diesel LL Coolant
Dennis Eagle Fleetguard	MTU (MTL 5048)
Detroit (DFS93K217)	MWM (0199-99-2091/11)
Deutz (DQC CB-14)	Renault (41-01-001)
Freightliner Fleet Charge Powercool	Saab Scania® (6901)
FUSO (SAE J814-C)	SAE J 1034 and JASO M 324
Hino Genuine LL Coolant	Toyota (K2601G - 1G)
Isuzu (GM6277M & HN2217)	UD Long Life Coolant (Nissan)
IVECO Paraflu 11	Volvo (VCS)
IVECO (AC9-50)	Waukesha 4-1974D
Japanese JIS K 2234	Western Star ASTM D6210

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STORAGE & HANDLING

AC-1 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

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.

Seek medical attention for any irritation.

PRODUCT CODES / QUANTITIES

Available AC-1 Concentrate	Pack Size	Pack	Quantity
A/AC1/1	1L	Bottle	Carton (12)
A/AC1/5	5L	Bottle	Carton (4)
A/AC1/20	20L	Cube	
A/AC1/200	200L	Drum	
A/AC1/1000	1000L	IBC	

Available AC-1 Premix	Pack Size	Pack	Quantity
A/AC1-95/1	1L	Bottle	Carton (12)
A/AC1-95/5	5L	Bottle	Carton (4)
A/AC1-95/20	20L	Cube	
A/AC1-95/200	200L	Drum	
A/AC1-95/1000	1000L	IBC	

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