

## AC-9 COOLANT

**Long Life Organic Engine Coolant Type A Organic Acid Technology (OAT)  
Coolant - (Monoethylene Glycol)**

AC-9 is a premium grade long life organic coolant for use in all makes and models of vehicle including automotive and heavy duty diesel

### PRODUCT INFORMATION

AC-9 is a premium quality, organic, long life anti boil/ anti freeze coolant concentrate. AC-9 is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. AC-9 is suitable for both automotive and heavy duty diesel engines. AC-9 contains 90% monoethylene glycol and a double inhibitor package ensuring ultimate corrosion protection and extended service life. Anti boil and anti freeze protection is equally afforded with a substantially higher rust and corrosion protection than competitor products. AC-9 is the ultimate in up to date coolant technology. AC-9 protects all metals found in cooling systems and gives excellent protection against cavitation's erosion and wet-sleeve liner pitting. It significantly increases the operating life of water pumps and exceeds corrosion performance levels required to meet Australian Standard AS2108.1-2004 and numerous performance specifications of OEM's including Ford & GMH. This coolant has been independently verified to all relevant ASTM's for automotive and heavy duty diesel use.

Provides maximum protection against 'hot spot' corrosion, common in aluminium cylinder heads.

AC-9 has a service life of up to 10 years / 1,000,000kms\* in automotive applications and up to 6 years / 600,000kms / 6,000hrs\* in heavy duty diesels. This has obvious environmental advantages as a result of fewer coolant changes. There are no deleterious effects on hoses or gaskets. (\* at 50/50 dilution ratio)

Has a proven record over many years with marine engines, mining equipment, taxi fleets, government departments, bus companies and several large fleet truck companies.

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### TYPICAL PROPERTIES

Appearance	Mobile liquid <small>(Available in Green, Red, Blue or Yellow)</small>
pH (50/50 vol/vol):	7.7-8.6
Specific Gravity:	1.1103 kg/L (Concentrate)
Glycol by Weight (kg/L):	1.0035
Freezing Point:	-36.2°C (50% by Vol.)
Boiling Point:	108.2°C (50% by Vol.)
Reserve Alkalinity (mL):	4.6
DG Class:	Non Dangerous Goods
Boiling Point (oC) ASTM D1120	Yes
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)



**Non DG**

### TEST RESULTS

#### **ASTM D 1384 - GLASSWARE CORROSION TEST**

<u>Metal</u>	<u>Allowable Weight Loss</u>	<u>Typical Weight Loss AC-9</u>
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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### TEST RESULTS

#### **ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST**

<u>Allowable Weight Loss</u>	<u>Typical Result AC-9</u>
1.0mg / cm <sup>2</sup> / week	-0.01

#### **ASTM D2809 - CAVIATION EROSION CORROSION**

<u>Rating (minimum)</u>	<u>AC-9</u>
8	8

### PRODUCT CODES / QUANTITIES

#### **Available AC-9 Concentrate**

**A/AC9/1** | 1L Plastic Bottle (Carton of 12)

**A/AC9/2.5** | 2.5L Plastic Bottle (Carton of 6)

**A/AC9/5** | 5L Plastic Bottle (Carton of 4)

**A/AC9/20** | 20L Plastic Cube

**A/AC9/200** | 200L Metal Drum

**A/AC9/IBC** | 1,000L IBC

#### **Available AC9-50 in Premix 50%**

**A/AC9-50/1** | 1L Bottle (Carton of 12)

**A/AC9-50/5** | 5L Bottle (Carton of 4)

**A/AC9-50/20** | 20L Plastic Cube

**A/AC9-50/200** | 200L Metal Drum

**A/AC9-50/IBC** | 1,000L IBC (Premixed with Demineralised Water)

#### **AC-9 Red, Blue or Yellow Coolant (Concentrate or Premix)**

**A/AC9COLOUR/5** | 5L Plastic Bottle (Box of 4)

**A/AC9COLOUR/20** | 20L Plastic Cube

**A/AC9COLOUR/200** | 200L Metal Drum

**A/AC9COLOUR/1000** | 1,000L IBC

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### SPECIFICATIONS (Cars)

AC-9 coolant is recommended in vehicles 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 - Parafllu 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 - Parafllu 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

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SPECIFICATION  
 (Medium & HD Diesel)

AC-9 coolant is recommended in vehicles where the following performance levels are required;

AFNOR NFR 15-601	Liebherr MD 1-36-130
ASTM D3306	MAN 324 SNF / 248
ASTM D4656	Mack VCS Coolant
ASTM D4985	Mercedes Benz Spec. 325.0
BS 6580	Mercedes Benz 325.5
Caterpillar ELC	Mitsubishi FUSO Genuine Diesel LL Coolant
Caterpillar 1 EO 535	Saab Scania® 6901
Cummins 3666132	SAE J 1034 and JASO M 324
DAF 742002	Toyota K2601G - 1G
DAF BTPS 606A	UD Long Life Coolant (Nissan)
DAF DCEA 615	Volvo VCS
Dennis Eagle Fleetguard	Volvo VCS STD 418-0001
Freightliner Fleet Charge Powercool	Waukesha 4-1974D
FUSO SAE J814-C	Western Star ASTM D6210
Hino Genuine LL Coolant	
Isuzu (GM6277M & HN2217)	
IVECO Paraflu 11	
IVECO GM6038M	
IVECO AC9-50	
Japanese JIS K 2234	
Jenbacher	
Kenworth ALLCoo	
Komatsu KES 07.892	

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SPECIFICATION  
(Medium & HD Diesel)

Meets the phosphate-free requirements of European manufacturers

Meets the silicate-free requirements of Japanese manufacturers