

AC-1 COOLANT

Long Life Organic Rust & Corrosion Inhibitor Type B Automotive Coolant (AS 2108:2004)

AC-1 is a premium grade long life organic water soluble rust and corrosion inhibitor type coolant for use in a variety of engine types

PRODUCT INFORMATION

AC-1 is a premium quality, long life, organic, water based rust and corrosion inhibitor. It has been formulated using organic acid technology (OAT) with high performance being a key objective and no low or inferior ingredients have been used.

The low depletion rate of organic inhibitors provide long term and consistent corrosion protection under a variety of operating conditions. This product gives superior corrosion protection to all metals found in engine cooling systems. It exceeds the performance requirements of Australian Standard AS/NZS 2108.1-2004 Type B coolant.

AC-1 gives excellent protection against liner pitting in heavy duty diesel engines and is suitable for use in all vehicles where anti boil/anti freeze protection is not required. This product has excellent aluminum protection properties.

AC-1 is recommended at a 5 - 7% dosage with clean or demineralised water. Austech premix uses only demineralised water. This product has a service life of 250,000 kms / 5yrs in a well maintained automotive engine and up to 4 years / 600,000kms / 6000 hrs in a well maintained heavy duty diesel cooling system. Significantly reduces cavitation's, erosion and increases the service life of water pumps.

AC-1 is recommended where glycol based coolants are not required and AC-1 is totally compatible with AC-9. AC-9 is recommended where anti boil/anti freeze protection is required. AC-1 is applicable for use in stationary engines (oil & gas), automotive and diesel engines, marine engines, mining equipment not requiring glycol coolant and power generator engines.

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TYPICAL PROPERTIES

Appearance:	Dark Green or (Dark Red Special Order only) Mobile Liquid
pH (Undiluted):	9.00 -9.70
Specific Gravity:	1.05 - 1.08
Odour:	Slight
Flammable:	No
Boiling Point:	>100°C
Solubility:	Miscible
DG Class:	Non Dangerous Goods
Hazardous:	Yes



SPECIFICATIONS

AC-1 (RCI 2001) is recommended in vehicles where the following performance levels are required;

Nalco Maxitreat 3443 (AC-1 Premix)	Nalco Maxitreat 3447 (AC-1 Concentrate)
Powercool GF 9443 (AC-1 Premix)	Powercool GF9477-C (AC-1 Concentrate)
BASF Glyscorr G93-94	CCI Corporation A216
BP Castrol Ext Life Corrosion Inhibitor	Chevron Texaco Ext. Life Inhibitor
Fleetguard DCA-4L	Penray Pencool 3000

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TEST RESULTS

ASTM D 1384 - GLASSWARE CORROSION TEST

	<u>Allowable Weight Loss</u>	<u>Typical Weight Loss AC1</u>
Copper	10mg / coupon	0.8
Solder	10mg / coupon	2.4
Brass	10mg / coupon	0.1
Steel	10mg / coupon	+1.0
Cast Iron	10mg / coupon	+1.3
Aluminium	10mg / coupon	13.0

No evidence of pitting attack.

ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

<u>Allowable Weight Loss</u>	<u>Typical Weight Loss AC1</u>
1.0 mg / cm ² / week	0.25

ASTM D 2809 - CAVITATION EROSION CORROSION

<u>Rating (minimum)</u>	<u>AC1</u>
8	9

TYPICAL PRODUCT CODES / QUANTITIES

- Concentrate
- A/AC1/(500)** | 500ml Plastic Bottle (Carton of 12)
 - A/AC1/1** | 1L Plastic Bottle (Carton of 12)
 - A/AC1/5** | 5L Plastic Jerry Can (Carton of 4)
 - A/AC42aA/AC1/20/IBC** | 20L Plastic Drum
 - A/AC1/200** | 200L Metal Drum
 - A/AC1/IBC** | 1000L IBC
- Ready to us (5% Dilution)
- A/AC1-95/5** | 5L Ready to Use Plastic Jerry Can (Carton of 4)