

AGCO NF PRE-MIXED COOLANT

Long Life Organic Engine Coolant Type A
Organic Acid Technology (OAT) Coolant

PRODUCT DATA SHEET



Product Information

AGCO NF Premixed Coolant is a **premium quality**, organic, long life anti boil/anti freeze coolant concentrate. AGCO NF Premixed Coolant is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. AC9 is suitable for both automotive and heavy duty diesel engines.

AGCO NF Premixed Coolant 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. AC9 is the ultimate in up to date coolant technology.

AGCO NF Premixed Coolant protects all metals found in cooling systems and gives excellent protection against cavitations 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.

AGCO NF Premixed Coolant has a service life of up to 5 years / 500,000kms* 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.

Typical Properties

Appearance:	Mobile liquid
pH (50/50 vol/vol):	7.7 - 8.6
Glycol by Weight (gm/L):	1.0035
Density:	1.1103 kg/L (Concentrate)
Freezing Point:	-36.2°C (50% by Vol.)
Boiling Point:	108.2°C (50% by Vol.)
Reserve Alkalinity (mL):	4.6
Glassware Corrosion Test:	Pass (ASTM D-1384)
Aluminium Corrosion Test:	Pass (ASTM D-4340)
Water Pump Cavitation Test:	Pass (ASTM D-2809)
Foaming Tendencies Test:	Pass (ASTM D-1881)
Cummins Anti Scale Test:	Pass (per AES 14603)

TEST RESULTS

ASTM D 1384 - GLASSWARE CORROSION TEST

Metal	Allowable Weight Loss	Typical Weight Loss AC9
Copper	10mg / coupon	0.00

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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

ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

<u>Allowable Weight Loss</u>	<u>Typical Result AC9</u>
1.0mg / cm ² / week	-0.01

ASTM D2809 - CAVIATION EROSION CORROSION

<u>Rating (minimum)</u>	<u>AC9</u>
8	8

SPECIFICATIONS

AGCO NF Premixed Coolant is recommended in vehicles where the following performance levels are required;

AS 2108.1 : 2004 Type A	Mazda MES MN 1210	Komatsu KES 07.892
AFNOR NFR 15-601	Japanese JIS K 2234	Jenbacher
ASTM D3306, D4656, D4985	SAE J 1034 and JASO M 324	Liebert MD 1-36-130
BS 6580	Volvo (spec. no. 1286083)	MAN 324 Type SNF
GM 6277 M	BMW N 600 69.0	Waukesha 4-1974D
GM 1825 M	Mercedes Benz MB-Approval 325.3	Saab Scania® 6901
GM 1899 M	Nissan NES 5059 LLC	Meets the phosphate-free requirements of European manufacturers
Ford ESE FM 97B18-C	Cummins 92 T8-9	
Ford ESE M 978B4H-A	Saab FSD 8074	
Ford ESE M 99B166-C	Caterpillar 1 EO 535	Meets the silicate-free requirements of Japanese manufacturers
A/ Toyota K2601G - 1G	DAF 742002/BTPS 606A/DCEA 615	