

PRODUCT DATA SHEET (PDS)



Cleanawerx Australia Pty Ltd

Product: **CLEANAWORX GO
COOL CFS-9 COOLANT**

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

PRODUCT INFORMATION

CFS-9 is a **premium quality**, organic, long life anti boil/ anti freeze coolant concentrate. CFS-9 is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. CFS-9 is suitable for both automotive and heavy duty diesel engines.

CFS-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. CFS-9 is the ultimate in up to date coolant technology. CFS-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 aluminum cylinder heads.

CFS-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.

TYPICAL PROPERTIES

Appearance:	Mobile liquid (Available in Green, Red, Blue or Yellow)
pH (50/50 vol/vol):	7.7 - 8.6
Specific Gravity:	1.1103 kg/L (Concentrate)
Glycol by Weight (gm/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
Hazardous:	Yes

Non DG



Glassware Corrosion Test: Pass (ASTM D-1384) Aluminum 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)

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TEST RESULTS

ASTM D 1384 - GLASSWARE CORROSION TEST

<u>Metal</u>	<u>Allowable Weight Loss</u>	<u>Typical Weight Loss CFS-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
Aluminum	30mg / coupon	0.14

ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

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

ASTM D2809 - CAVIATION EROSION CORROSION

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

PRODUCT CODES / QUANTITIES

Available CFS-9 Concentrate

CFSGCC-9-5	5L Plastic Bottle (Carton of 4)
CFSGCC-9-20	20L Plastic Cube CFS-9-20

Available AC 9-50 in Premix

CFSGCP-9-5	5L Plastic Bottle (Carton of 4)
CFSGCP-9-20	20L Plastic Cube CFS-9-20

CFS-9 Coolant available in 200L, 100L IBC - POA

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SPECIFICATION (Medium & HD Diesel)

AFNOR NFR 15-601
ASTM D3306
ASTM D4656
ASTM D4985
BS 6580
Caterpillar ELC
Caterpillar 1 EO 535
Cummins 3666132
DAF 742002
DAF BTPS 606A
DAF DCEA 615
Dennis Eagle Fleetguard
Freightliner Fleet Charge
Powercool FUSO SAE J814-C
Hino Genuine LL Coolant
Isuzu (GM6277M &
HN2217)
IVECO Paraflu 11
IVECO
GM6038M
IVECO AC9-50

Japanese JIS K 2234 Jenbacher
Kenworth ALLCool Komatsu KES 07.892
Liebherr MD 1-36-130
MAN 324 SNF / 248
Mack VCS Coolant
Mercedes Benz Spec. 325.0
Mercedes Benz 325.5
Mitsubishi FUSO Genuine Diesel LL
Coolant Saab Scania® 6901
SAE J 1034 and JASO M 324
Toyota K2601G - 1G
UD Long Life Coolant (Nissan)
Ivo VCS
Waukesha 4-1974D
Western Star ASTM D6210

Meets the phosphate-free requirements of
Europe- an manufacturers

Meets the silicate-free requirements of
Japanese manufacturers