

RECO-COOL

TECHNICAL BULLETIN 0012/13

GLOSSARY OF TERMS

The overwhelming tendency of most Original Equipment Manufacturers (OEMs) is to primarily recommend ethylene glycol based coolants in their radiators. Some people in Australia question this, however the OEMs are based in areas such as Japan, Europe and North America, whereby the antifreeze component of an antifreeze / antiboil (glycol) fluid is essential for the winter months.

Term/Specification	Definition and comments
AFNOR RF15-601	French standard for engine coolants often referred to within Europe
AS/NZS2108	Australian/NZ standard for automotive engine coolants (Type A & B)
ASTM	American Society for Testing Materials
ASTM E1177	Specification for Virgin and re-distilled EG & PG
ASTM D7713	Specification for Aqueous engine coolant grade glycol nominal 53 volume %
ASTM D 3306	Standard spec. for Glycol (EG & PG concentrate and 50/50 pre-dilute) based automotive and light duty service engine coolants
ASTM D 4656	No longer exists as it is built into ASTM D3306
ASTM D 4340	Laboratory screening procedure for effectiveness of coolants preventing corrosion of heat rejecting aluminium (Al) in Al cylinder head engines.
ASTM D 4985	Stand spec for low silicate EG based coolant for HD engines requiring SCA
ASTM D 5345	No longer exists as is built into ASTM D4985
ASTM D 1384	Glassware laboratory test to evaluate corrosion protection of antifreeze on metal specimens (air/temp) – static test
ASTM D 1881	Laboratory test to evaluate tendency of coolant to foam under standard conditions (air/temp)
ASTM D 2570	Laboratory test to evaluate of circulating antifreeze on metal specimens/system component
ASTM D6210	Fully formulated glycol based coolant for heavy duty diesel engines
ASTM D7583	John Deere Liner Cavitation Test used to determine the capability of a coolant to prevent cylinder liner cavitation and pitting corrosion
ASTM D 2809	Laboratory test to evaluate effects of antifreeze on Al water pumps under cavitation corrosion.
CES 14603	Cummins Material Specification for Heavy Duty Diesel EG & PG Based Coolant
CAT EC-1	Caterpillar specification for EG or PG based engine coolant
Conventional Coolant	Coolant based on traditional inorganic technology which is typically a combination of some of the following: silicate, nitrite, nitrate, molybdate, phosphate, borate etc. Typically these coolants are suitable for up to 60,000km or 2 years life
Cummins	Coolant specifications Bulletin # 3666132, MS 14603
DEXCOOL	GM Trademark for their long life automotive engine coolant
EG Engine Coolant	EG based fluid containing corrosion inhibitors (for metals including copper, iron & Al) ,scale inhibitors and antifoam agents, with EG providing antiboil / antifreeze
GM 6038M	GM coolant formulation for light duty engine coolant formulation requiring addition of SCAs
GM 1825M	GM performance requirements for automotive engine coolant
GM 1899M	GM performance requirements for light duty and heavy duty diesel engine coolant



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