AS 2108—2004

Australian Standard™

Engine coolants Type A and Type B for engine cooling systems

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee CH-029, Additives for Engine Cooling Systems. It was approved on behalf of the Council of Standards Australia on 21 June 2004.
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The following are represented on Committee CH-029:

AMDEL Limited
Australasian Corrosion Association
Australian Railway Association
Australian Aluminium Council
Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Chamber of Commerce and Industry
Business New Zealand
Federal Chamber of Automotive Industries
Federation of Automotive Products Manufacturers
Institute of Automotive Mechanical Engineers
New Zealand Automobile Association
The Royal Australian Chemical Institute
Society of Automotive Engineers Australasia

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee CH-029, Additives for Engine Cooling Systems to supersede AS/NZS 2108.1:1997, *Engine coolants Type A and Type B for engine cooling systems,* Part 1: *Passenger cars and light commercial vehicle*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to ensure that coolants for passenger cars and light commercial vehicles are tested for minimum requirements for Type A engine coolant (antifreeze/antiboil coolant with corrosion inhibitor) and Type B engine coolant (corrosion inhibitor only), as well as, their pre-diluted form that can be added directly to the cooling system without further dilution.

This revision includes two new tables for testing pre-diluted coolants (Type A and Type B), and addresses other minor omissions and ambiguities in order to facilitate ease of use by the public and the automotive industry.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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1 SCOPE

This Standard lists the specifications for formulated glycol coolant solutions and for corrosion inhibitors.

This Standard applies both to concentrates which require dilution before use, and to pre-diluted solutions which are formulated for direct use in passenger car and light commercial engine cooling systems. Provision is also made for informative labelling of containers.

NOTE: This Standard does not cover coolants for use in heavy duty cycle engine cooling systems.

2 APPLICATION

The Standard has application both to the primary fill and also to after care/service coolants.

3 REFERENCED DOCUMENTS

The latest issue of publication shall apply.

The following documents are referred to in this Standard.

ASTM

D92 Standard test method for flash and fire points by Cleveland open cup tester

D380 Standard test methods for rubber hose

D412 Standard test methods for vulcanized rubber and thermoplastic elastomers—Tension

D471 Standard test method for rubber property—Effect of liquids

D1119 Standard test method for percent ash content of engine coolants and antirusts

D1121 Standard test method for reserve alkalinity of engine coolants and antirusts

D1122 Standard test method for density or relative density of engine coolant concentrates and engine coolants by the hydrometer

D1177 Standard test method for freezing point of aqueous engine coolants

D1287 Standard test method for pH of engine coolants and antirusts

D1384 Standard test method for corrosion test for engine coolants in glassware

D1881 Standard test method for foaming tendencies of engine coolants in glassware

D2240 Standard test method for rubber property—Durometer hardness

D2570 Standard test method for simulated service corrosion testing of engine coolants

D2809 Standard test method for cavitation corrosion and erosion-corrosion characteristics of aluminium pumps with engine coolants

D3183 Standard test practice for rubber—Preparation of pieces for test purposes from products

D3634 Standard test method for trace chloride ion in engine coolants

D4340 Standard test method for corrosion of cast aluminium alloys in engine coolants under heat-rejecting conditions

