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**JIS K 2234** : 2006

(JACA/JSA)

**Engine antifreeze coolants**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Auto Chemical Industry Association (JACA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 2234** : 1994 is replaced with this Standard.

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## Engine antifreeze coolants

**Introduction** This Japanese Industrial Standard was revised by reference to **ASTM** and **SAE** or the like because the last revision was carried out more than five years ago and review of standards responding to the accelerated adoption of aluminium parts was necessary.

**1 Scope** This Standard specifies the antifreeze coolants (hereafter referred to as “antifreeze coolants”, mainly composed of ethylene glycol, which are employed for prevention of freezing of cooling liquid (hereafter referred to as “cooling liquid”) used in a liquid-cooled internal combustion engine and for corrosion prevention of the cooling system. This can be used in aqueous solution of concentration from 25 vol% to 60 vol%.

### 2 Normative references

The standards shown in attached table contain provisions which, through reference in this text constitute provisions of this Standard. The most recent editions of the standards indicated (including amendments) shall be applied.

**3 Classification** Classification shall be as in table 1.

**Table 1 Classification**

Class	Symbol	Characteristic
Class 1	AF	To used during winter for the purpose to prevent freezing of cooling liquid and to prevent corrosion.
Class 2	LLC	To be used throughout a year for the purpose to prevent freezing of cooling liquid and to prevent corrosion.

**4 Quality** When tested by the test methods specified in clause 8, the quality shall satisfy the requirements in table 2.