

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS D 2602 : 2008

(JRMA/JSA)

**Rubber hoses and tubing for cooling
systems for internal-combustion engines
— Specification**

ICS 43.060.30;83.140.40

Reference number : JIS D 2602 : 2008 (E)

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D 2602 : 2008

Date of Establishment: 1960-03-01

Date of Revision: 2008-10-20

Date of Public Notice in Official Gazette: 2008-10-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Chemical Products

JIS D 2602 : 2008, First English edition published in 2009-005

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
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Printed in Japan

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Classification	3
4 Sizes and tolerances thereof	3
5 Performance requirements for hoses	4
6 Test methods	6
6.1 General	6
6.2 Resistance to burst pressure	6
6.3 Adhesion	6
6.4 Low-temperature flexibility	6
6.5 Resistance to collapse	7
6.6 Resistance to kinking	7
6.7 Resistance to dilation	8
6.8 Resistance to electrochemical degradation	8
6.9 Resistance to ozone	8
6.10 Resistance to heat ageing	9
6.11 Compression set	9
6.12 Resistance to contamination by engine oil	9
6.13 Durability	9
7 Inspection	12
7.1 General	12
7.2 Type inspection	12
7.3 Delivery inspection	13
7.4 Routine inspection	13
8 Marking	13
Annex A (informative) Routine inspection	14
Annex JA (informative) Relation between ozone partial pressure and ozone concentration	15
Annex JB (informative) Comparison table between JIS and the corresponding International Standard	17

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 The Japan Rubber Manufacturers Association (JRMA)/ 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 D 2602** : 1999 is replaced with this Standard.

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Rubber hoses and tubing for cooling systems for internal-combustion engines — Specification

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of ISO 4081 published in 2005 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JB.

Warning Persons using this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

1 Scope

This Standard specifies the rubber hoses and tubing (hereafter referred to as “hoses”) for cooling systems of the internal-combustion engines which utilize the anti-freeze coolant of 1, 2-ethanediol as a main component for private vehicles and commercial vehicles whose unladen mass (according to the definition of JIS D 0102) is 3.5 t or under.

NOTE : The International Standard corresponding to this Standard is as follows.

ISO 4081 : 2005 *Rubber hoses and tubing for cooling systems for internal-combustion engines – Specification* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For the standards with the indication of year, only the edition of the indicated year shall be applied but not any revisions made thereafter (including amendments). For those with no indication of year, the most recent edition (including amendments) shall be applied.

JIS D 0102 *Road vehicles — Dimensions, masses, weights and performances —*