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JIS K 6253-3 : 2023

(JRMA/JSA)

**Rubber, vulcanized or thermoplastic —
Determination of hardness — Part 3:
Durometer method**

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Foreword

This Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied *mutatis mutandis* pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 6253-3** : 2012), which has been technically revised.

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JIS K 6253 series consists of the following 5 parts under the general title *Rubber, vulcanized or thermoplastic — Determination of hardness*

Part 1 : General guidance

Part 2 : IRHD method (hardness between 10 IRHD and 100 IRHD)

Part 3 : Durometer method

Part 4 : IRHD pocket meter method

Part 5 : Calibration and verification of hardness testers

Rubber, vulcanized or thermoplastic — Determination of hardness — Part 3 : Durometer method

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 48-4** : 2018, Edition 1, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies a method for determining the hardness of vulcanized or thermoplastic rubber using durometers.

NOTE 1 Annex JA gives the correspondence table between **JIS K 6253** series and **ISO 48** series for better understanding of the relation between them.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 48-4 : 2018 *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4 : Indentation hardness by durometer method (Shore hardness)* (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 21-1**.

WARNING 1 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 of this Standard to establish appropriate safety and health practices.

WARNING 2 Certain procedures specified in this Standard might involve the use or generation of substances, or the generation of waste, that could constitute a local environmental hazard. Reference should be made to appropriate laws/regulations on safe handling and disposal after use.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the