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Rubber, vulcanized or thermoplastic — Determination of temperature rise and resistance to fatigue in flexometer testing

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Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by Japanese Standards Association (JSA), an accredited standards development organization. This edition replaces the previous edition (**JIS K 6265** : 2018), which has been technically revised.

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Rubber, vulcanized or thermoplastic — Determination of temperature rise and resistance to fatigue in flexometer testing

Introduction

This Japanese Industrial Standard has been prepared based on ISO 4666-1 : 2010, Edition 2, ISO 4666-3 : 2022, Edition 4, and ISO 4666-4 : 2018, Edition 2, with some modifications of the technical contents.

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

1 Scope

This Standard specifies the determination methods of the temperature rise, dynamic creep and compression set due to internal heat generation, and the fatigue life of vulcanized rubber and thermoplastic rubber, using the compression flexometer.

The flexometer specified in this Standard is not applicable to the testing of vulcanized and thermoplastic rubbers having an international rubber hardness of 85 IRHD or greater as specified in JIS K 6253-2, or a Type A durometer hardness of A85 or greater as specified in JIS K 6253-3.

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

ISO 4666-1 : 2010 *Rubber, vulcanized — Determination of temperature rise and resistance to fatigue in flexometer testing — Part 1: Basic principles*

ISO 4666-3 : 2022 *Rubber, vulcanized — Determination of temperature rise and resistance to fatigue in flexometer testing — Part 3: Compression flexometer (constant-strain type)*

ISO 4666-4 : 2018 *Rubber, vulcanized — Determination of temperature rise and resistance to fatigue in flexometer testing — Part 4: Constant-stress flexometer* (overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards 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

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