



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 6251 : 2023

(JRMA/JSA)

**Rubber, vulcanized or thermoplastic —
Determination of tensile stress-strain
properties**

ICS 83.060

Reference number: JIS K 6251 : 2023 (E)

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K 6251 : 2023

Date of Establishment: 1993-02-01

Date of Revision: 2023-11-20

Date of Public Notice in Official Gazette: 2023-11-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Chemical Products and
Analytical Methods

JIS K 6251 : 2023, First English edition published in 2025-02

Translated and published by: Japanese Standards Association
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In the event of any doubts arising as to the contents,
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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 6251** : 2017), which has been technically revised.

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Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 37** : 2017, Edition 6, 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 JA.

1 Scope

This Standard specifies a method for the determination of tensile stress-strain properties of vulcanized and thermoplastic rubbers.

The properties which can be determined are tensile strength, elongation at break, stress at a given elongation, elongation at a given stress, tensile stress at yield and elongation at yield. The measurements of tensile stress at yield and elongation at yield applies only to vulcanized rubbers and thermoplastic rubbers having a yield point.

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.

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

ISO 37 : 2017 *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties* (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**.

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