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(JTM/JSA)

**Vickers hardness test — Calibration of
reference blocks**

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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 Testing Machine Association (JTM)/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 B 7735**:2010), which has been technically revised.

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Vickers hardness test — Calibration of reference blocks

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 6507-3** : 2018, Edition 4, with some modifications of the technical contents.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JC. Annex JA and Annex JB are unique to **JIS** and not given in the corresponding International Standard.

1 Scope

This Standard specifies a method for the calibration of hardness reference blocks (hereafter referred to as reference blocks) to be used for the indirect verification and daily accuracy control of Vickers hardness testing machines as specified in **JIS B 7725** (hereafter referred to as the testing machine).

It should be noted that Vickers hardness determination from indentations $< 20\ \mu\text{m}$ in diagonal length may cause large uncertainties in the results.

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

ISO 6507-3 : 2018 *Metallic materials — Vickers hardness test — Part 3 : Calibration of reference blocks* (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

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

JIS B 0601 *Geometrical Product Specifications (GPS) — Surface texture : Profile method — Terms, definitions and surface texture parameters*

JIS B 0621 *Definitions and designations of geometrical deviations*

JIS B 7725 *Vickers hardness test — Verification and calibration of testing machines*

NOTE Corresponding International Standard : ISO 6507-2 *Metallic materials — Vickers hardness test — Part 2 : Verification and calibration of testing machines*

JIS B 7728 *Calibration of force-proving instruments used for the verification of*