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## **Brinell hardness test—Verification and calibration of testing machines**

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In the event of any doubts arising as to the contents,  
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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Symbols and definitions .....	2
5 General conditions .....	3
6 Direct verification .....	3
6.1 General .....	3
6.2 Measurement of test force .....	4
6.3 Verification of indenter .....	4
6.4 Calibration of indentation diameter measuring system .....	5
6.5 Verification of testing cycle .....	6
7 Indirect verification .....	6
7.1 General .....	6
7.2 Verification range .....	6
7.3 Reference indentation .....	6
7.4 Number of measured indentations .....	7
7.5 Mean value of indentation diameters .....	7
7.6 Repeatability .....	7
7.7 Permissible repeatability .....	7
7.8 Mean hardness value .....	7
7.9 Error .....	7
7.10 Uncertainty .....	8
8 Intervals between direct and indirect calibrations and verifications .....	8
9 Verification report/calibration certificate .....	9
Annex A (informative) Uncertainty of measurement of verification results of hardness testing machine .....	10
Annex B (informative) Verification of hardness testing machines that are incapable of meeting the specified force/time profile .....	17
Bibliography .....	18
Annex JA (informative) Comparison table between JIS and corresponding International Standard .....	19

## 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 Japan Testing Machinery Association (JTM)/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 B 7724:1999** is replaced with this Standard.

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# Brinell hardness test—Verification and calibration of testing machines

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 6506-2:2014**, Edition 3, with some modifications of the technical contents in order to correspond to the needs of users in Japan.

The portions with continuous 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 JA.

## 1 Scope

This Standard specifies methods of direct and indirect verification of testing machines used for determining Brinell hardness in accordance with **JIS Z 2243**.

This Standard is applicable to both fixed location and portable hardness testing machines (hereafter referred to as testing machines).

For machines that are incapable of satisfying the specified force-time profile, the direct verification of force and testing cycle can be modified by the use of Annex B.

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

ISO 6506-2:2014 *Metallic materials—Brinell hardness test—Part 2: Verification and calibration of testing machines* (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 7728 *Calibration of force-proving instruments used for the verification of uniaxial testing machines*

NOTE : Corresponding International Standard: ISO 376 *Metallic materials—Calibration of force-proving instruments used for the verification of uniaxial testing machines*

JIS B 7736 *Brinell hardness test—Calibration of reference blocks*

NOTE : Corresponding International Standard: ISO 6506-3 *Metallic materials—Brinell hardness test—Part 3: Calibration of reference blocks*

JIS Z 2243 *Brinell hardness test—Test method*