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Rockwell hardness test — Verification and calibration of testing machines and indenters

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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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Contents

	Page
Introduction	
1	Scope
2	Normative references ······ 2
3	Terms and definitions ······2
4	Symbols and definitions ······2
5	General conditions ····································
6 6.1 6.2 6.3 6.4 6.5	Direct verifications of testing machine3General3Calibration and verification of test force3Calibration and verification of depth-measuring system4Calibration of testing cycle5Verification of machine hysteresis5
7 7.1 7.2 7.3 7.4 7.5	Indirect verifications of testing machine6General6Procedure of indirect verification6Repeatability7Bias8Uncertainty of measurement8
8 8.1 8.2 8.3 8.4	Calibration and verification of Rockwell hardness indenters9General9Diamond indenter9Ball indenter12Marking13
9	Intervals between direct and indirect calibrations and verifications14
10	Verification report/calibration certificate ······14
Annex A (normative) Repeatability of testing machines16	
Anne	x B (informative) Uncertainty of measurement of calibration results of hardness testing machines18
Bibliography ······27	
Annex	x JA (informative) Comparison table between JIS and corresponding International Standard28

B 7726: 2017

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 7726:2010 is replaced with this Standard.

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Introduction

This Japanese Industrial Standard has been prepared based on **ISO 6508-2**: 2015, 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 two separate methods of verification of testing machines (direct and indirect) for determining Rockwell hardness in accordance with **JIS Z 2245**.

This Standard is applicable to stationary and portable Rockwell hardness and Rockwell superficial hardness testing machines (hereafter referred to as testing machines) related to metal materials.

- NOTE 1 Attention is drawn to the fact, in ISO 6508-1: 2015, that the use of tungsten carbide composite for ball indenters (hereafter referred to as hardmetal ball) is considered to be the standard type of Rockwell indenter ball. Steel indenter balls may continue to be used only when complying with ISO 6508-1, Annex A. This Standard is intended to adopt hardmetal balls as the standard indenter at the time of next revision.
- NOTE 2 Attention is drawn to the fact that the result obtained with hardmetal balls may be significantly different from the result obtained with a steel balls.
- NOTE 3 Rockwell hardnesses are classified into Rockwell regular hardness and Rockwell superficial hardness in ISO 6508-1 while they are respectively described as "Rockwell hardness" and "Rockwell superficial hardness" in this Standard.
- NOTE 4 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 6508-2: 2015 Metallic materials — Rockwell hardness test — Part 2: Verification and calibration of testing machines and indenters (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**.