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Metallic materials -- Bend test

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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 The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS Z 2248** : 2014), which has been technically revised.

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Metallic materials — Bend test

Introduction

This Japanese Industrial Standard has been prepared based on ISO 7438 : 2020, Edition 4, 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 the method of bend test for metallic materials ¹⁾.

Annex B shows the method of bend test at plane strain condition, by agreement between the purchaser and the supplier, for reference.

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

ISO 7438 : 2020 *Metallic materials — Bend test* (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**.

Note ¹⁾ In ISO 7438, it is described as “a method for determining the ability of metallic materials to undergo plastic deformation in bending”.

2 Normative reference

Part or all of the provisions of the following standard, through reference in this text, constitute provisions of this Standard. The most recent edition of the standard (including amendments) indicated below shall be applied.

JIS G 0202 *Glossary of terms used in iron and steel (Testing)*

3 Term and definition

For the purpose of this Standard, the following term and definition, and those given in JIS G 0202 apply.

3.1

test force

force applied to test piece for the purpose of testing

4 Symbols and designations

The devices used in the bend test are as shown in Figure 1 to Figure 5, and the sym-