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JIS Z 3111 : 2005

(JWES/JSA)

**Methods of tension and impact tests for  
deposited metal**

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## 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 The Japan Welding Engineering Society (JWES)/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 Z 3111:1986 is replaced with this Standard.

This revision has been made based on ISO 15792-1:2000 *Welding consumables—Test methods—Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys* in order to conform this Standard to the International Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,  
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## Methods of tension and impact tests for deposited metal

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of ISO 15792-1 *Welding consumables—Test methods—Part 1 : Test methods for all-weld metal test specimens in steel, nickel and nickel alloys* published in 2000 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters modified from the original International Standard. A list of modifications with the explanations is given in Annex (informative).

**1 Scope** This Standard specifies the methods of tension and impact tests for deposited metal by shielded metal arc welding, gas-shielded metal arc welding and submerged arc welding.

Remarks : The International Standard corresponding to this Standard is as follows.

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.

ISO 15792-1 : 2000 *Welding consumables—Test methods—Part 1 : Test methods for all-weld metal test specimens in steel, nickel and nickel alloys* (MOD)

**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 Z 2201 *Test pieces for tensile test for metallic materials*

JIS Z 2241 *Method of tensile test for metallic materials*

JIS Z 2242 *Method for Charpy pendulum impact test of metallic materials*

JIS Z 3001 *Welding terms*

JIS Z 3703 *Welding—Guidance on the measurement of preheating temperature, interpass temperature and preheat maintenance temperature*

Remarks : ISO 13916 : 1996 *Welding—Guidance on the measurement of preheating temperature, interpass temperature and preheat maintenance temperature* is identical with the said standard.