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Nickel and Nickel-alloy covered electrodes

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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 Welding Engineering Society (JWES)/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 Z 3224** : 2010), which has been technically revised.

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Nickel and Nickel-alloy covered electrodes

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 14172 : 2023**, 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 requirements for the nickel and nickel-alloy covered electrodes (hereafter referred to as electrodes).

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

ISO 14172 : 2023 *Welding consumables — Covered electrodes for manual metal arc welding of nickel and nickel alloys — Classification* (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

Part or all of the provisions of the following standards, 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 G 0321 | <i>Product analysis and its tolerance for wrought steel</i> |
| JIS G 1201 | <i>Iron and steel — General rules for analytical methods</i> |
| JIS G 4902 | <i>Corrosion-resistant and heat-resistant superalloy, nickel and nickel alloy — Plate, sheet and strip</i> |
| JIS H 1270 | <i>Nickel and nickel alloys — Sampling and general rules for analytical methods</i> |
| JIS Z 3001-1 | <i>Welding and allied processes — Vocabulary — Part 1 : General</i> |
| JIS Z 3001-2 | <i>Welding and allied processes — Vocabulary — Part 2 : Welding processes</i> |
| JIS Z 3001-7 | <i>Welding and allied processes — Vocabulary — Part 7 : Arc welding</i> |
| JIS Z 3111 | <i>Methods of tension and impact tests for deposited metal</i> |
| JIS Z 3184 | <i>Method of preparing deposited metal pad and samples for chemical analysis</i> |
| JIS Z 3200 | <i>Welding consumables — Technical delivery conditions for welding filler materials — Type of product, dimensions, tolerances and markings</i> |