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**Stainless steel rods, wires and strip
electrodes for welding**

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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 3321** : 2013), which has been technically revised.

However, **JIS Z 3321** : 2013 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 July 2022.

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Stainless steel rods, wires and strip electrodes for welding

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 14343** : 2017, Edition 3, with some modifications of the technical contents. **ISO 14343** contains both of the two different approaches in the global market, the standard used in the European region and the standard used around the Pacific Rim, and states that either or both can be used to suit a particular market need. Therefore, this Standard gives the requirements corresponding to those used around the Pacific Rim (System B in **ISO 14343**) in the main body, and those used in the European region (System A in **ISO 14343**) in Annex JA, as a reference.

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 JB.

1 Scope

This Standard specifies the requirements for stainless steel filler rods, solid wires and steel strip (hereafter referred to as filler metals), containing chromium of 10.5 % (mass fraction) or over and nickel of 37.0 % (mass fraction) or under, used for TIG welding, MIG welding, strip electrode overlaying and others.

NOTE 1 Filler metals having toughness in cryogenic service at -196 °C shall be in accordance with **JIS Z 3327**.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 14343 : 2017 *Welding consumables — Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels — 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

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 G 0320 *Standard test method for heat analysis of steel products*

JIS G 0321 *Product analysis and its tolerance for wrought steel*

JIS G 0404 *Steel and steel products — General technical delivery requirements*