

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 3334 : 2017

(JWES)

**Rods, solid wires and strip
electrodes for welding of nickel and
nickel-alloy**

ICS 25.160.20

Reference number : **JIS Z 3334 : 2017 (E)**

Z 3334 : 2017

Date of Establishment: 1988-08-01

Date of Revision: 2017-04-20

Date of Public Notice in Official Gazette: 2017-04-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Metal and Inorganic
Materials

JIS Z 3334:2017, First English edition published in 2017-09

Translated and published by: Japanese Standards Association
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In the event of any doubts arising as to the contents,
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Printed in Japan

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Classification and designation of symbols	2
5 Quality	3
5.1 Dimensions, dimensional tolerances and product conditions of filler metals	3
5.2 Chemical composition of filler metals	3
6 Test methods	10
6.1 Determination of lot	10
6.2 Chemical analysis	10
7 Inspection	10
8 Designation of products	10
9 Marking	11
9.1 Marking on products	11
9.2 Marking on packages	11
10 Packaging	11
11 Certificate of inspection	11
Annex JA (informative) Comparison table between JIS and corresponding International Standard	12

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) 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 3334**:2011 is replaced with this Standard.

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Rods, solid wires and strip electrodes for welding of nickel and nickel-alloy

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 18274:2010**, Edition 2, 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 rods, solid wires and strip electrodes of nickel and nickel-alloy (hereafter generically referred to as filler metals) used for TIG welding, MIG welding, submerged arc welding, overlay welding with strip electrode, and plasma arc welding.

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

ISO 18274:2010 *Welding consumables—Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion 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

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 1201 *Iron and steel—General rules for analytical methods*

JIS H 1270 *Nickel and nickel alloys—Sampling and general rules for analytical methods*

JIS Z 2611 *General rules for photoelectric emission spectrochemical analysis of metal materials*

JIS Z 2615 *General rules for determination of carbon in metallic materials*

JIS Z 3001-1 *Welding and allied processes—Vocabulary—Part 1: General*

JIS Z 3001-2 *Welding and allied processes—Vocabulary—Part 2: Welding processes*

JIS Z 3200 *Welding consumables—Technical delivery conditions for welding filler materials—Type of product, dimensions, tolerances and markings*