

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 Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2017

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

HT/AT

Contents

	Page
Intr	oduction1
1	Scope1
2	Normative references — 1
3	Terms and definitions ————————————————————————————————————
4	Classification and designation of symbols2
5 5.1 5.2	Quality 3 Dimensions, dimensional tolerances and product conditions of filler metals 3 Chemical composition of filler metals 3
6 6.1 6.2	Test methods
7	Inspection ————————————————————————————————————
8	Designation of products — 10
9 9.1 9.2	Marking11Marking on products11Marking on packages11
10	Packaging11
11	Certificate of inspection ————————————————————————————————————
Ann	ex JA (informative) Comparison table between JIS and corresponding International Standard

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.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

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

JIS Z 3334 : 2017

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 nickelalloy (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