

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3547 : 2015

(JWPA)

Zinc-coated low carbon steel wires

ICS 25.220.40;77.140.65

Reference number : **JIS G 3547 : 2015 (E)**

Date of Establishment: 1993-07-01

Date of Revision: 2015-08-20

Date of Public Notice in Official Gazette: 2015-08-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic

Materials

JIS G 3547:2015, First English edition published in 2015-10

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 2015

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

AT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Classification, symbols and applicable thicknesses.....	2
5 Material.....	2
6 Manufacturing method.....	2
7 Mechanical properties.....	2
8 Zinc coating characteristics.....	5
8.1 Zinc coating mass.....	5
8.2 Winding property.....	6
9 Standard wire diameters and tolerances on wire diameters.....	6
9.1 Standard wire diameters.....	6
9.2 Tolerances on wire diameters.....	6
10 Appearance.....	7
11 Tests.....	7
11.1 Sampling.....	7
11.2 Tensile test.....	7
11.3 Torsion test.....	7
11.4 Zinc coating mass test.....	8
11.5 Winding test.....	8
11.6 Measurement of wire diameter.....	9
12 Inspection.....	9
13 Designation of products.....	10
14 Marking.....	10
15 Report.....	10
Annex JA (informative) Comparison table between JIS and corresponding International Standards.....	11

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 Japan Wire Products Association (JWPA) 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 G 3547:2008** is replaced with this Standard.

However, **JIS G 3547:2008** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until August 19, 2016.

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.

Zinc-coated low carbon steel wires

Introduction

This Standard has been prepared based on the first edition of **ISO 7989-1** published in 2006, and the first edition of **ISO 7989-2** published in 2007 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standards have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies zinc-coated low carbon steel wires (hereafter referred to as "steel wires").

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

ISO 7989-1:2006 *Steel wire and wire products—Non-ferrous metallic coatings on steel wire—Part 1: General principles*

ISO 7989-2:2007 *Steel wire and wire products—Non-ferrous metallic coatings on steel wire—Part 2: Zinc or zinc-alloy coating* (Overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards 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 0201 *Glossary of terms used in iron and steel (Heat treatment)*

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

JIS G 0415 *Steel and steel products—Inspection documents*

JIS G 3505 *Low carbon steel wire rods*

JIS H 0401 *Test methods for hot dip galvanized coatings*

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS G 0201** apply.