

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3314 : 2019

(JISF)

**Hot-dip aluminium-coated steel
sheet and strip**

ICS 77.140.50

Reference number : JIS G 3314 : 2019 (E)

G 3314 : 2019

Date of Establishment: 1977-01-01

Date of Revision: 2019-09-20

Date of Public Notice in Official Gazette: 2019-09-20

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

JIS G 3314:2019, First English edition published in 2020-04

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 2020

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

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Symbol of grade, applicable nominal thickness and coating mass symbol	1
4 Chemical composition	2
5 Coating	3
5.1 Chemical composition of plating bath	3
5.2 Coating mass	3
5.3 Coating adherence	4
6 Chemical treatment	4
7 Oiling	5
8 Mechanical properties	5
8.1 Tensile test characteristics	5
8.2 Bendability	6
9 Dimensions	6
9.1 Expression of dimensions	6
9.2 Standard dimensions	6
9.3 Dimensional tolerances	7
10 Shape	8
10.1 Camber	8
10.2 Squareness	9
10.3 Flatness	10
11 Mass	11
12 Appearance	12
13 Tests	12
13.1 Chemical analysis	12
13.2 Chemical analysis of plating bath	12
13.3 Coating mass test	12
13.4 Coating adherence test	13
13.5 Mechanical tests	14
14 Inspection and reinspection	14
14.1 Inspection	14
14.2 Reinspection	15

15	Marking	15
16	Information to be supplied in enquiry and order	16
17	Report	16
Annex JA (normative)	Nominal thicknesses and coating mass symbols for sheets and coils for roofing or architectural siding	17
Annex JB (normative)	Coating mass test of hot-dip aluminium-coated steel sheets and strips	18
Annex JC (informative)	Comparison table between JIS and corresponding International Standard	26

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 Iron and Steel Federation (JISF) with the 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 G 3314:2017**), which has been technically revised.

However, **JIS G 3314:2017** 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 September 2020.

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

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

NOTE Based on Article 9 of the Supplementary Provisions to the Unfair Competition Prevention Act etc., any submission of proposal, or employment of procedures such as deliberation by the Japanese Industrial Standards Committee under the previous Industrial Standardization Act shall be deemed to have been conducted pursuant to the provision of Article 12, paragraph (1) of the revised Industrial Standardization Act.

Blank

Hot-dip aluminium-coated steel sheet and strip

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 5000:2011**, 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 JC. Annex JA and Annex JB are unique to **JIS** and not given in the corresponding International Standard.

1 Scope

This Standard specifies requirements for steel sheets and strips coated by a hot-dip aluminium coating process (hereafter referred to as sheets and coils, respectively).

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

ISO 5000:2011 *Continuous hot-dip aluminium-silicon-coated cold-reduced carbon steel sheet of commercial and drawing qualities* (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 0404 *Steel and steel products—General technical delivery requirements*

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

JIS K 0119 *General rules for X-ray fluorescence analysis*

JIS K 8576 *Sodium hydroxide (Reagent)*

JIS K 8847 *Hexamethylenetetramine (Reagent)*

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

JIS Z 8401 *Rounding of numbers*

3 Symbol of grade, applicable nominal thickness and coating mass symbol

The symbol of grade, applicable nominal thickness and coating mass symbol shall be as follows.