

JAPANESE INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

JIS H 8643:2019

(JGA/JSA)

Hot-dip zinc-aluminium alloy galvanized coatings

 $\textbf{ICS} \ \ 25.220.40 \ ; \ 77.120.10$

Reference number: JIS H 8643: 2019 (E)

H 8643: 2019

Date of Establishment: 2019-11-20

Date of Public Notice in Official Gazette: 2019-11-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic Materials

JIS H 8643: 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 KK/HN

Contents

	Pa	age
1	Scope	L
2	Normative references · · · · · · 1	L
3	Terms and definitions · · · · · 1	
4	Classification and symbols for class ······ 2	2
5 5.1 5.2 5.3 5.4 5.5	Substrate3General3Surface condition3Structure3Information on structure4Chemical composition4	3 3 3
6 6.1 6.2 6.3	Galvanizing bath Type of galvanizing bath Zinc used for galvanizing bath Galvanizing bath composition	1 1
7 7.1 7.2 7.3 7.4	Quality5General5Appearance5Coating thickness6Coating mass6	5 5 3
8 8.1 8.2 8.3 8.4	Tests 7 Galvanizing bath composition 7 Appearance 7 Coating thickness 7 Coating mass 9	7 7 7
9	Inspection · · · · 9)
10	Marking9)
11	Report · · · · · 9)
Anne	ex A (informative) Examples of coating thickness measurement areas and the number of measurements10)

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Galvanizers Association Inc. (JGA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act.

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, 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, 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.

Hot-dip zinc-aluminium alloy galvanized coatings

JIS H 8643: 2019

1 Scope

This Japanese Industrial Standard specifies requirements for the significant surface of hot-dip zinc-aluminium alloy galvanized coating (hereafter referred to as coatings) applied on steel products or fabricated steel products (hereafter referred to as substrates) for the purpose of corrosion prevention. This Standard does not apply to hot-dip zinc-aluminium alloy-coated steel sheets and strips specified in **JIS G 3317** and **JIS G 3323**, or hot-dip zinc-aluminium alloy-coated iron wires and steel wires that are continuously galvanized.

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 H 0401	Test methods for hot dip galvanized coatings
JIS H 1111	Methods for chemical analysis of zinc metal
JIS H 1551	Methods for chemical analysis of die casting zinc alloys
JIS H 2107	Zinc ingots
JIS Z 0103	Glossary of terms used in rust and corrosion preventive technology

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS Z 0103**, and the following apply.

3.1

significant surface

part of the product covered or to be covered by the coating and for which the coating of specified quality is essential for serviceability of the product

3.2

galvanized coating

layer obtained by formation of a coating of alloys consisting mainly of zinc and aluminium on substrates

It refers to a coating layer having thickness from a coating surface to a substrate surface.

3.3

coating thickness