

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 5314 : 2014

(JDPA)

Mortar lining for ductile iron pipes

ICS 23.040.10;77.140.75

Reference number : **JIS A 5314 : 2014 (E)**

A 5314 : 2014

Date of Establishment: 1958-03-29

Date of Revision: 2014-11-20

Date of Public Notice in Official Gazette: 2014-11-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Civil Engineering

JIS A 5314:2014, First English edition published in 2015-11

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

KA/AT

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references	1
3 Terms and definitions	2
4 Quality of lining	2
4.1 Thickness of lining	2
4.2 Cracking and radial displacement	3
4.3 Appearance	3
5 Materials.....	3
5.1 General	3
5.2 Cement	3
5.3 Fine aggregate	3
5.4 Water.....	3
5.5 Seal coat.....	3
5.6 Admixture.....	3
6 Forming of lining.....	4
6.1 Mortar	4
6.2 Proportion	4
6.3 Forming.....	4
6.4 Curing	4
6.5 Coating of seal coat.....	4
7 Test	4
7.1 Fine aggregate test	4
7.2 Lining test	5
8 Inspection	5
8.1 General.....	5
8.2 Thickness of lining	5
8.3 Cracking and radial displacement	5
8.4 Appearance	5
Annex JA (informative) Comparison table between JIS and corresponding International Standard	6
Annex JB (informative) Comparison table between previous and current editions of this Standard on technically significant revisions	13

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 Ductile Iron Pipe Association (JDPA) 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 A 5314**:1998 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.

Mortar lining for ductile iron pipes

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 4179** published in 2005 with some modifications of the technical contents in such items as the thickness of mortar lining and the width of cracking, in consideration that the quality of water in Japan is mainly soft water.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA. The comparison table between previous and current editions of this Standard on technically significant revisions is given in Annex JB.

1 Scope

This Standard specifies the internal mortar lining (hereafter referred to as “lining”) for ductile iron pipes (hereafter referred to as “pipes”) specified in **JIS G 5526**.

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

ISO 4179:2005 *Ductile iron pipes and fittings for pressure and non-pressure pipelines—Cement mortar lining* (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 contains provisions which, through reference in this text, constitutes provisions of this Standard. The most recent editions of the standards (including amendments) shall be applied.

JIS A 0203 *Concrete terminology*

JIS A 1103 *Method of test for amount of material passing test sieve 75 μm in aggregates*

JIS A 1105 *Method of test for organic impurities in fine aggregate*

JIS B 7507 *Vernier, dial and digital callipers*

JIS B 7516 *Metal rules*

JIS B 7524 *Feeler gauges*

JIS G 5526 *Ductile iron pipes*

JIS R 5210 *Portland cement*

JIS R 5211 *Portland blast-furnace slag cement*

JIS R 5213 *Portland fly-ash cement*