

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 5314 : 1998

Mortar lining for ductile iron pipes

ICS 23.040.10

Descriptors : mortars, bitumen pipe coatings, spheroidal-graphite cast-iron, water pipes, water supply, casing pipes

Reference number : JIS A 5314 : 1998 (E)

A 5314 : 1998

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS A 5314 : 1984** is replaced with **JIS A 5314 : 1998**.

The purpose of this revision is to make the coordination of the specification on fine aggregate and curing with the corresponding International Standard.

Date of Establishment: 1958-03-29

Date of Revision: 1998-11-20

Date of Public Notice in Official Gazette: 1998-11-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Civil Engineering

JIS A 5314:1998, First English edition published in 2000-04

Translated and published by: Japanese Standards Association
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Printed in Japan

Mortar lining for ductile iron pipes

Introduction This Japanese Industrial Standard has been prepared based on the main items specified in the second edition of **ISO 4179** *Ductile iron pipes for pressure and non-pressure pipelines—Centrifugal cement mortar lining—General requirements*, published in 1985, without modifying its technical contents, and for the thickness of lining and width of cracking, this Standard has adopted the different specifications from those in **ISO 4179** in consideration of water condition in this country.

1 Scope This Japanese Industrial Standard specifies mortar linings (hereafter referred to as “linings”) applied on the inner surface of ductile iron pipes (hereafter referred to as “pipes”) specified in **JIS G 5526**.

Remarks : The International Standard corresponding to this Standard is as follows.

ISO 4179 : 1985 *Ductile iron pipes for pressure and non-pressure pipelines—Centrifugal cement mortar lining—General requirements*

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS A 1103 *Method of test for amount of material passing standard sieve 75 μ m in aggregates*

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

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*

JIS Z 8801 *Test sieves*

3 Thickness of lining The thickness of lining at its pipe end shall follow Table 1. In this case, measure the thickness of lining with metal rule specified in **JIS B 7516** or vernier calliper specified in **JIS B 7507**, and the mean value of measurements, which are taken at 4 points spaced at 90° intervals at pipe end, shall be at least the minimum mean thickness.

The thickness measured toward circumferential direction at arbitrary point on pipe end shall be at least the minimum thickness at one point. The check of thickness shall be carried out for every nominal diameter of the pipe, which has been continuously manufactured, for every centrifugal forming machine with picking up at least one pipe per day.