

Translated and Published by Japanese Standards Association

JIS A 1110 : 2020

(JCI)

Methods of test for density and water absorption of coarse aggregates

ICS 91.100.30 Reference number : JIS A 1110 : 2020 (E) A 1110 : 2020

Date of Establishment: 1951-08-22 Date of Revision: 2020-01-27 Date of Public Notice in Official Gazette: 2020-01-27 Investigated by: Japanese Industrial Standards Committee Standards Board for ISO area Technical Committee on Civil Engineering

JIS A 1110:2020, First English edition published in 2020-09

Translated and published by: Japanese Standards Association Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

Contents

Page

Introduction1		
1	Scope1	
2	Normative references	
3	Apparatus and equipment	
4	Sample2	
5	Test method ······3	
6	Calculation3	
7	Accuracy4	
8	Test report4	
Anne	ex JA (informative)	Comparison table between JIS and corresponding International Standard5
Annex JB (informative)		Comparison table between previous and current editions of this Standard on technically significant revisions

A 1110 : 2020

Foreword

This Japanese Industrial Standard has been revised by the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Concrete Institute (JCI) with a 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 A 1110**:2006), which has been technically revised.

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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.

Methods of test for density and water absorption of coarse aggregates

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 6783**:1982, Edition 1, with some modifications of the technical contents.

The dotted underlines indicate changes from the corresponding International Standard. 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 a method for the determination of the density and the water absorption of coarse aggregates¹⁾. The test method for lightweight coarse aggregates for structural concrete where aggregates in oven-dry condition are immersed in water for 24 h is specified in **JIS A 1135**.

- Note ¹⁾ For determination of density and water absorption of coarse aggregates using a pycnometer, **JIS A 1109** may be referred to.
- NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 6783:1982 Coarse aggregates for concrete—Determination of particle density and water absorption—Hydrostatic balance method (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 A 1109 Methods of test for density and water absorption of fine aggregates

- JIS A 1135 Methods of test for particle density and water absorption of lightweight coarse aggregates for structural concrete
- JIS A 1158 Method for reducing samples of aggregate to testing size
- JIS Z 8801-1 Test sieves—Part 1: Test sieves of metal wire cloth
 - NOTE Corresponding International Standard: ISO 3310-1:2000 Test sieves— Technical requirements and testing—Part 1: Test sieves of metal wire cloth