

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 5308 : 2024

Ready-mixed concrete

ICS 91.100.30

Reference number: JIS A 5308 : 2024 (E)

PROTECTED BY COPYRIGHT

58 S

A 5308 : 2024

Date of Establishment: 1953-11-07

Date of Revision: 2024-03-21

Date of Public Notice in Official Gazette: 2024-03-21

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

JIS A 5308 : 2024, First English edition published in 2026-02

Translated and published by: Japanese Standards Association
Mita Avanti, 3-11-28, 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 2026

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

HN

PROTECTED BY COPYRIGHT

Contents

| | Page |
|--|------|
| Introduction | 1 |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 2 |
| 4 Type, classification and designation of products | 4 |
| 4.1 Type and classification | 4 |
| 4.2 Designation of products | 6 |
| 5 Quality | 8 |
| 5.1 Quality requirement | 8 |
| 5.2 Strength | 8 |
| 5.3 Slump | 8 |
| 5.4 Slump flow | 8 |
| 5.5 Air content | 9 |
| 5.6 Chloride content | 9 |
| 6 Volume | 9 |
| 7 Mix proportion | 9 |
| 8 Materials | 10 |
| 8.1 Cement | 10 |
| 8.2 Aggregates | 10 |
| 8.3 Water | 10 |
| 8.4 Admixture | 11 |
| 9 Manufacturing method | 11 |
| 9.1 Manufacturing equipment | 11 |
| 9.2 Batching of constituent materials | 13 |
| 9.3 Mixing of concrete | 15 |
| 9.4 Loading | 15 |
| 9.5 Transportation of concrete | 15 |
| 9.6 Handling of recovered aggregate | 16 |
| 9.7 Handling of mortar adhering to drum inner wall of truck agitator | 17 |
| 9.8 Quality control | 17 |
| 10 Test methods | 17 |
| 10.1 Sampling method | 17 |
| 10.2 Strength | 17 |
| 10.3 Slump | 18 |
| 10.4 Slump flow | 18 |

| | | |
|------------------------|--|----|
| 10.5 | Air content | 18 |
| 10.6 | Chloride content | 18 |
| 10.7 | Volume | 18 |
| 11 | Inspection | 19 |
| 11.1 | Inspection items | 19 |
| 11.2 | Strength | 19 |
| 11.3 | Slump/slump flow and air content | 19 |
| 11.4 | Chloride content | 19 |
| 11.5 | Specified requirements | 20 |
| 12 | Report | 20 |
| 12.1 | Mix design report and basic information on ready-mixed concrete | 20 |
| 12.2 | Delivery ticket for ready-mixed concrete | 20 |
| Annex JA (normative) | Aggregates for ready-mixed concrete | 33 |
| Annex JB (normative) | Restraining measures for alkali-silica reaction | 42 |
| Annex JC (normative) | Water for mixing of ready-mixed concrete | 45 |
| Annex JD (normative) | Stabilizer used for adhering mortar and sludge water | 56 |
| Annex JE (normative) | Method for use of stabilized sludge water | 60 |
| Annex JF (normative) | Method for use of mortar adhering to truck agitator drum | 64 |
| Annex JG (normative) | Lightweight formwork | 68 |
| Annex JH (informative) | Comparison table between JIS and corresponding International Standards | 74 |
| Annex JI (informative) | List of technically significant revisions from the previous edition | 96 |

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Act. This edition replaces the previous edition (**JIS A 5308** : 2019), which has been technically revised.

However, **JIS A 5308** : 2019 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 20 September 2024.

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.

Blank

Ready-mixed concrete

Introduction

This Japanese Industrial Standard was established in 1953, has gone through 14 revisions including this one. Though the last revision is conducted in 2019, this revision is intended to reflect the recent advances in technology and environmental considerations.

This Standard has been prepared based on the provisions which cover ready-mixed concrete such as **ISO 22965-1** and **ISO 22965-2**, with some modifications of the technical contents to respond to the actual conditions in Japan. Annexes JA to JG are unique to **JIS** and not given in the corresponding International Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of technical deviations with the explanations is given in Annex JH. A list of technically significant revisions from the previous edition with reasons is given in Annex JI.

1 Scope

This Standard specifies the requirements for the ready-mixed concrete delivered to the point of discharge (hereafter referred to as ready-mixed concrete). However, this Standard does not specify transportation, placing and curing of the concrete after delivery.

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

ISO 12439 : 2010 *Mixing water for concrete*

ISO 19595 : 2017 *Natural aggregates for concrete*

ISO 19596 : 2017 *Admixtures for concrete*

ISO 22904 : 2020 *Additions for concrete*

ISO 22965-1 : 2007 *Concrete — Part 1: Methods of specifying and guidance for the specifier*

ISO 22965-2 : 2007 *Concrete — Part 2: Specification of constituent materials, production of concrete and compliance of concrete* (overall evaluation: 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

Part or all of the provisions of the normative references indicated in Table 12,