



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS R 5211 : 2009

(JCA)

Portland blast-furnace slag cement

ICS 91.100.10

Reference number : JIS R 5211 : 2009 (E)

Date of Establishment: 1950-03-16

Date of Revision: 2009-11-20

Date of Public Notice in Official Gazette: 2009-11-20

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

JIS R 5211:2009, First English edition published in 2010-12

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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Printed in Japan

Contents

	Page
1 Scope	1
2 Normative references	1
3 Classification and composition	1
4 Quality	2
5 Constituents	2
5.1 Clinker	2
5.2 Portland cement	2
5.3 Blast-furnace slag	3
5.4 Gypsum	3
5.5 Minor additional constituents	3
5.6 Grinding aids	4
6 Test method	4
6.1 Density, specific surface area, setting, soundness and compressive strength	4
6.2 Chemical composition	4
6.3 Heat of hydration	4
7 Inspection	4
8 Packaging	4
9 Package marking	4
10 Report	4
Annex A (informative) Comparison table between the present and previous editions of this Standard on technically significant revisions	8

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 Cement Association (JCA) 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 R 5211:2003** has been replaced with this Standard.

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Portland blast-furnace slag cement

1 Scope

This Japanese Industrial Standard specifies portland blast-furnace slag cement.

Matters revised from the previous edition that are of technical significance are explained in Annex A in the form of a table of comparison between this edition and the previous edition.

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 6201 *Fly ash for use in concrete*
- JIS A 6206 *Ground granulated blast-furnace slag for concrete*
- JIS M 8850 *Methods for chemical analysis of limestone*
- JIS R 5201 *Physical testing methods for cement*
- JIS R 5202 *Methods for chemical analysis of cements*
- JIS R 5203 *Testing method for heat of hydration of cement*
- JIS R 5204 *Chemical analysis method of cement by x-ray fluorescence*
- JIS R 5210 *Portland cement*
- JIS R 5212 *Portland pozzolan cement*
- JIS R 9151 *Gypsum for portland cement retarder*
- JIS Z 1505 *Kraft paper sacks—For cement*

3 Classification and composition

The portland blast-furnace slag cement shall be classified into three classes in table 1 according to the blast-furnace slag content, and includes the cement composed of portland cement (see 5.2) and blast-furnace slag (see 5.3) and the cement composed of clinker (see 5.1), gypsum (see 5.4), minor additional constituent¹⁾ (see 5.5) and blast-furnace slag (see 5.3).

In addition, in the case of the former composition, when blast-furnace slag is contained in portland cement as the minor additional constituent specified in 5.3 of JIS R 5210, that amount shall be included in the blast-furnace slag content in table 1. In the case of the latter composition, the amount of minor additional constituent (see 5.5) shall be not more than 5 %, in mass, of the total amount of clinker, gypsum and minor additional constituent. Furthermore, the amount of grinding aids used shall be less than 1 %, in mass, of the portland blast-furnace slag cement.

Note ¹⁾ The minor additional constituent here does not include blast-furnace slag.