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Portland fly-ash cement

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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 5213:1997** has been replaced with this Standard.

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Portland fly-ash cement

1 Scope

This Japanese Industrial Standard specifies portland fly-ash 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 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 5204 *Chemical analysis method of cement by x-ray fluorescence*

JIS R 5210 *Portland cement*

JIS R 5211 *Portland blast-furnace slag 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 fly-ash cement shall be classified into three classes in table 1 according to the fly-ash content, and includes the cement composed of portland cement (see 5.2) and fly-ash (see 5.3) and the cement composed of clinker (see 5.1), gypsum (see 5.4), minor additional constituent¹⁾ (see 5.5) and fly-ash (see 5.3).

In addition, in the case of the former composition, when fly-ash 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 fly-ash 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 fly-ash cement.

Note ¹⁾ The minor additional constituent here does not include fly-ash.