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Physical testing methods for cement

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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 5201**:1997 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Physical testing methods for cement

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 9597** published in 2008 and the second edition of **ISO 679** published in 2009 by modifying some of their technical contents to reflect the domestic conditions in Japan.

In this Standard, test methods conventionally used in Japan are given in parallel with the corresponding **ISO** test methods so as to allow users to select between two comparable methods, with Japanese methods given in the main body and the **ISO** methods respectively corresponding thereto given in Annexes A to C, namely, the setting time test in Annex A, cement soundness test in Annex B and cement strength test in Annex C.

This Standard also specifies methods for density test, fineness test, soundness test using pat method, and flow test, which are not included in the corresponding International Standards.

Sidelines and 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 the physical testing methods for cement.

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

ISO 679:2009 *Cement—Test methods—Determination of strength*

ISO 9597:2008 *Cement—Test methods—Determination of setting time and soundness* (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

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 B 7721 *Tension/compression testing machines—Verification and calibration of the force-measuring system*

NOTE : Corresponding International Standard: ISO 7500-1 *Metallic materials—Verification of static uniaxial testing machines—Part 1: Tension/compression testing machines—Verification and calibration of the force-measuring system* (MOD)

JIS K 0050 *General rules for chemical analysis*