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**Determination of the heat of hydration of
cement — Solution method**

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In the event of any doubts arising as to the contents,
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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 5203:1995** is replaced with this Standard.

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Determination of the heat of hydration of cement — Solution method

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of ISO 29582-1 published in 2009 without modification in the basic measuring principle, but with addition of unique contents of JIS that are: tolerances for the measurement of heat of solution of hydrated cement and solution conditions for respective types of cement.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. 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 testing method for heat of hydration of portland cement, portland blast-furnace slag cement, and portland masonry cement.

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

ISO 29582-1 : 2009 *Methods of testing cement — Determination of the heat of hydration — Part 1 : Solution method* (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 T 0050 *General rules for chemical analysis*

JIS K 3001 *General rule for test methods of reagents*

JIS K 8005 *Reference materials for volumetric analysis*

JIS K 8405 *Zinc oxide (Reagent)*

JIS K 8541 *Nitric acid (Reagent)*

JIS Z 8801-1 *Test sieves — Part 1 : Test sieves of metal wire cloth*