



MALAYSIAN STANDARD

MS EN 1008:2010
(CONFIRMED:2015)

Mixing water for concrete - Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete (Second revision)

ICS: 19.100.30

Descriptors: water for concrete, water recovered process

NOTE. This Malaysian Standard has been reviewed and confirmed as being current.

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The Industry Standards Committee on Building, Construction and Civil Engineering (ISC D) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Irrigation and Drainage
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bekalan Air
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerajaan Tempatan
Jabatan Kerja Raya Malaysia
Kementerian Perumahan dan Kerajaan Tempatan
Malaysian Timber Industry Board
Master Builders Association Malaysia
Ministry of International Trade and Industry
Pertubuhan Akitek Malaysia
SIRIM Berhad (Secretariat)
The Chartered Institute of Building Malaysia
The Institution of Engineers, Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Concrete and Concrete Products which supervised the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Irrigation and Drainage
IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya Malaysia
Jabatan Kerja Raya Malaysia (Cawangan Kejuruteraan Awam, Struktur & Jambatan)
Jabatan Kerja Raya Malaysia (Cawangan Pengkalan Udara dan Maritim)
Master Builders Association Malaysia
National Ready Mixed Concrete Association
Pertubuhan Akitek Malaysia
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
The Cement and Concrete Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Teknologi Malaysia
Universiti Teknologi MARA

The Working Group on Revision of MS 28 which recommended the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya Malaysia (Cawangan Kejuruteraan Awam, Struktur & Jambatan)
National Ready Mixed Concrete Association
SIRIM Berhad (Secretariat)
Testech Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Teknologi MARA

NATIONAL FOREWORD

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Revision of MS 28 under the authority of the Industry Standards Committee on Building, Construction and Civil Engineering.

This Malaysian Standard is the second revision of MS 28, *Methods of test for water for making concrete*.

This Malaysian Standard is identical with EN 1008:2002, *Mixing water for concrete - Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*, published by the European Committee for Standardization (CEN) with exception as listed below.

MALAYSIAN STANDARD EXCEPTIONS

- a) in the source text, “ this European Standard” should read “this Malaysian Standard”,
- b) the comma which is used as a decimal sign (if any), to read as a point; and

c)	Clause/Subclause	Modification
3.1	Potable water	The definition has been changed to “water suitable for human consumption”

Explanation: The definition is adopted from ASTM C1602/C1602M-06.

3.2	Water recovered from processes in the concrete industry	Add symbol ‘)’ at the end of the sentence
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Explanation: Correction of typographical error.

4.3.2	Sulphates	Addition of SO ₃ shall not exceed 1 000mg/L
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Explanation: This parameter is originally adopted from MS 28:1985 in Appendix A3.3 and can now be used as an alternative parameter to SO₄⁻².

6.1.2	Humic matter	Replace the existing temperature range with the new temperature range of 27°C ± 2
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Explanation: Inclusion of this term is to reflect the local climatic condition.

NATIONAL FOREWORD *(continued)*

- d) Reference to EN Standards should be replaced by corresponding Malaysian Standards as follows:

Referenced EN Standards

Corresponding Malaysian Standards

EN 196-1, *Methods of testing cement - Part 1: Determination of strength*

MS 522: Part 3, *Cement - Determination of strength*

EN 196-2, *Methods of testing cement - Part 2 Chemical analysis of cement*

MS 522: Part 4, *Cement - Chemical analysis of cement*

EN 196-3, *Methods of testing cement - Part 3: Determination of setting time and soundness*

MS 522: Part 5, *Cement - Determination of setting times and soundness*

EN 206-1, *Concrete - Part 1: Specification, performance, production and conformity*

MS 523: Part 1: *Concrete - Specification, performance, production and conformity*

This Malaysian Standard cancels and replaces MS 28:1985.

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Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

ICS 91.100.30

English version

Mixing water for concrete - Specification for sampling, testing
and assessing the suitability of water, including water recovered
from processes in the concrete industry, as mixing water for
concrete

Eau de gâchage pour bétons - Spécifications
d'échantillonnage, d'essais et d'évaluation de l'aptitude à
l'emploi, y compris les eaux des processus de l'industrie du
béton, telle que l'eau de gâchage pour béton

Zugabewasser von Beton - Festlegungen für die
Probenahme, Prüfung und Beurteilung der Eignung von
Wasser, einschließlich bei der Betonherstellung
anfallendem Wasser, als Zugabewasser für Beton

This European Standard was approved by CEN on 4 March 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	page
Foreword.....	3
Introduction	4
1 Scope	4
2 Normative references	4
3 Classification of types of water.....	5
3.1 Potable water.....	5
3.2 Water recovered from processes in the concrete industry.....	5
3.3 Water from underground sources.....	5
3.4 Natural surface water and industrial waste water	5
3.5 Sea water or brackish water	5
3.6 Sewage water	5
4 Requirements	5
4.1 General.....	5
4.2 Preliminary assessment.....	5
4.3 Chemical properties	6
4.4 Setting time and strength.....	7
5 Sampling	7
6 Testing	8
6.1 Test methods.....	8
6.2 Frequency for testing	9
6.3 Conformity evaluation	9
7 Report.....	9
Annex A (normative) Requirements for the use of water recovered from processes in the concrete industry.....	10
A.1 Scope	10
A.2 Terms and definitions.....	10
A.2.1 Water recovered from processes in the concrete industry.....	10
A.2.2 Combined water	10
A.2.3 Surplus concrete and mortar.....	10
A.2.4 Recovered aggregates	11
A.3 Limitations on the use of water recovered from processes in the concrete industry.....	11
A.4 Requirements	11
A.4.1 General.....	11
A.4.2 Storage.....	11
A.4.3 Distribution of solid material in the water.....	11
A.4.4 The mass of solid material present in the recovered water	11
A.5 Inspection	12
A.5.1 Density	12
A.5.2 Suitability	13
Annex B (informative) Testing scheme for mixing water for concrete	14
Annex C (informative) Recommended test methods.....	17
Bibliography	18

Foreword

This document EN 1008:2002 has been prepared by Technical Committee CEN/TC 104 "Concrete and related products", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2002, and conflicting national standards shall be withdrawn at the latest by December 2002.

This standard has been prepared by CEN/TC 104-WG 5 „Mixing water for concrete“.

Annex A is normative. The annexes B and C are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.