

STN	Skúšanie zatvrdnutého betónu Časť 18: Stanovenie koeficientu migrácie chloridov	STN EN 12390-18+A1 73 1302
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Testing hardened concrete - Part 18: Determination of the chloride migration coefficient

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/25

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English Version

**Testing hardened concrete - Part 18: Determination of the
chloride migration coefficient**

Essais pour béton durci - Partie 18 : Détermination du
coefficient de migration des chlorures

Prüfung von Festbeton - Teil 18: Bestimmung des
Chloridmigrationskoeffizienten

This European Standard was approved by CEN on 8 February 2021 and includes Amendment approved by CEN on 26 August 2024.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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EN 12390-18:2021+A1:2024 (E)

Contents	Page
European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Symbols.....	5
5 Principle	5
6 Apparatus and equipment	5
7 Preparation of specimens	8
7.1 Preparing sub-specimens.....	8
7.2 Preparing test specimens.....	9
8 Procedure.....	9
8.1 Installation of the test specimens in the migration cell	9
8.2 Installation of the migration cell in the migration apparatus	9
8.3 Test procedure	10
9 Test evaluation.....	13
9.1 Determination of the mean and maximum penetration depth	13
9.2 Determination of the chloride migration coefficient M_{nss}	13
10 Variations of the procedure	14
10.1 Specimens of sprayed mortar and sprayed concrete.....	14
11 Report.....	14
12 Precision estimate	15
Annex A (informative) Background to chloride migration testing	17
Bibliography.....	18

European foreword

This document (EN 12390-18:2021+A1:2024) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by SN.

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 April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 26 August 2024.

This document supersedes A1 EN 12390-18:2021 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

A list of all parts in the EN 12390 series, published under the general title “Testing hardened concrete”, can be found on the CEN website.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 12390-18:2021+A1:2024 (E)**1 Scope**

This document specifies the procedure for obtaining the non-steady-state chloride migration coefficient of specimens of hardened concrete at a specified age (see Annex A). The test procedure does not take into account any interaction of concrete with the saline solution over time. The test result is a durability indicator with respect to the resistance of the concrete investigated against chloride penetration.

The test procedure does not apply to concrete specimens with surface treatments such as silanes.

If the aggregate or any other embedded elements (such as metallic fibres or conducting particles) are electrically conductive, this will influence the magnitude of chloride migration. This fact is taken into account when establishing threshold values. It prevents comparison of chloride migration values between concretes if the aggregates induce a difference of half an order of magnitude (higher or lower) of chloride migration.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12390-2, *Testing hardened concrete — Part 2: Making and curing specimens for strength tests*

EN 14488-1, *Testing sprayed concrete — Sampling fresh and hardened concrete*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN