

Prøvning af hærdnet beton – Del 18: Bestemmelse af chloridmigrationkoefficienten

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

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DS/EN 12390-18:2021

København

DS projekt: M327477

ICS: 91.100.30

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EN 12390-18

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March 2021

ICS 91.100.30

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.

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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 foreword

This document ([EN 12390-18:2021](#)) 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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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.

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.

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Testing hardened concrete –

Part 18: Determination of the chloride migration coefficient

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*