

English Version

Cement - Guidelines for the application of EN 197-2: Assessment and verification of constancy of performance

Ciment - Lignes directrices pour l'application de l'EN
197-2 - Evaluation de la conformité

Zement - Richtlinien für die Anwendung der EN 197-2:
Bewertung und Überprüfung der
Leistungsbständigkeit

This Technical Report was approved by CEN on 8 December 2019. It has been drawn up by the Technical Committee CEN/TC 51.

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European foreword

This document (CEN/TR 14245:2020) has been prepared by Technical Committee CEN/TC 51 “Cement and building limes”, the secretariat of which is held by NBN.

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 supersedes CEN/TR 14245:2014.

Compared with CEN/TR 14245:2014, the following changes have been made:

- The Guidelines Document follows the changes made in EN 197-2;
- Guidance relating to AVCP for distributors and importers has been inserted in the Guidelines Document.

Introduction to this Guidelines Document

Purpose

The purpose of this document is to provide explanatory detail on points not fully elaborated in EN 197-2. It is intended for use by all parties involved in the certification of cement following EN 197-2.

It is an objective of this Guidelines Document that its use will assist in the establishment of equivalent procedures for certification of cement. It is expected that, following this document, traditional good procedures and practices that can be different can continue to be used, provided that they are not in contradiction with EN 197-2 and the relevant product specification standard. Such existing good procedures and practices, applied in conjunction with these Guidelines, are not considered to be an impediment to the achievement of the uniform level of certification throughout Europe, and by different product certification bodies.

This document is based on existing situations for production, assessment and verification of constancy of performance of cements. In case of situations different to those included in this document, specific procedures should be elaborated on a case by case decision and be fully recorded and approved. These specific procedures should always fulfil the specifications given in EN 197-1 and EN 197-2 and lead to the same level of confidence in product that would be achieved by application of this document.

Arrangement

The clause numbering system of EN 197-2 is followed. The text of each of the clauses of the European Standard is reproduced in full and is followed by guidance, which is provided only for those clauses where clarification or elaboration is needed.

Clauses of EN 197-2

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Factory production control
- 5 Tasks for the purpose of certification
- 6 Procedure for certification of constancy of performance of the product

Table 1

Annexes A and B

1 Scope

This document specifies the scheme for the assessment and verification of constancy of performance (AVCP) of cements, including certification of constancy of performance.

The document provides technical rules for factory production control, further testing of samples taken at the manufacturing plant (autocontrol testing) and assessment of the performance of the cement, initial inspection of the manufacturing plant and of factory production control, continuing surveillance, assessment and evaluation of factory production control and audit-testing of samples. It also provides rules for actions to be followed in the event of non-conformity and requirements for depots.

In this document, the word “cement” is used to refer both to common cements as defined in EN 197-1 and to other cements and binders for which the relevant product specification standard makes reference to this document and which are submitted for certification. Such a cement is produced at a given factory and belongs to a particular type and a particular strength class, as defined and specified in the relevant product specification standard.

The guidelines given in the Technical Report CEN/TR 14245 contain information for the application of this document.

This document is linked with Annexes ZA of European Standards covering cements and binders, i.e. EN 197-1, EN 14216, EN 14647, EN 413-1 and EN 15743.

NOTE The reason for having drafted this separate document is that the provisions it includes are applicable to different products covered by different European Standards.

Guidance

EN 197-2 deals with the assessment and verification of constancy of performance (AVCP) of cements and binders that are submitted for certification. It deals in particular with cases where “further testing” of the product is undertaken, as is the case for attestation system 1+ under the Construction Products Regulation. The products for which EN 197-2 is applicable are: the common cement products and the low heat cements and the sulfate resisting cements, refer to EN 197-1, the very low heat special cements, refer to EN 14216, the supersulfated cements, refer to EN 15743, the calcium aluminate cements, refer to EN 14647, and the masonry cements, refer to EN 413-1.

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 196-7, *Methods of testing cement — Part 7: Methods of taking and preparing samples of cement*

EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 413-1, *Masonry cement — Part 1: Composition, specifications and conformity criteria*

EN 14647, *Calcium aluminate cement — Composition, specifications and conformity criteria*

EN 15743, *Supersulfated cement — Composition, specifications and conformity criteria*