

SLOVENSKI STANDARD oSIST prEN 197-2:2019

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Cement - 2. del: Ovrednotenje skladnosti

Cement - Part 2: Conformity evaluation

Zement - Teil 2: Konformitätsbewertung

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Ciment - Partie 2: Evaluation de la conformité

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Ciment - Partie 2: Evaluation de la conformité

Zement - Teil 2: Konformitätsbewertung

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European foreword

This document (prEN 197-2:2019) has been prepared by Technical Committee CEN/TC 51 "Cement and building limes", the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 197-2:2014

Compared to the version EN 197-2:2014, the following major changes have been made in this document:

- a) use of the terminology given by the Delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) No 305/2011 (Construction Products Regulation), in particular adoption of the tasks defined in the Delegated Regulation for AVCP system 1+ for a re-arrangement of the clauses of this document;
- b) numbering of the clauses according to the order of the tasks described in this Delegated Regulation;
- c) adoption of the rules for dispatching centres to the requirements of the Construction Products Regulation;
- d) clarification/specification of the rules for depots;
- e) replacement of the term "intermediary" by "distributor"; teh.ai)
- f) replacement of the term "Works' quality manual" by "Works' quality documentation";
- g) replacement of the term "management representative" by "quality manager";
- h) deletion of informative Annex C "Comparison of terminology according to the CPD and the CPR" as this annex was considered to be no longer necessary;
- i) editorial revision of the document.
- EN 197, *Cement*, is currently composed of the following parts:
- Part 1: Composition, specifications and conformity criteria for common cements
- Part 2: Conformity evaluation

Annex A of this document is normative, Annex B is informative.

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 dispatching centres and 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 [4] contain information for the application of this document.

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.

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

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

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3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

ISO Online browsing platform: available at <u>http://www.iso.org/obp</u>

NOTE In the context of this document the term, "construction product" refers to cement.

3.1

AVCP

abbreviation for assessment and verification of constancy of performance

3.2

certificate of constancy of performance of the product

document issued under the rules of the scheme for the AVCP indicating that adequate confidence is provided that cement is in conformity with the relevant product specification standard

3.3

initial period

immediate period starting after the first issuing of the certificate of constancy of performance of the product for a cement and at the latest from the first dispatching of cement

3.4

factory production control

documented, permanent and internal control of production in a factory, in accordance with the relevant harmonized technical specifications

https://standards.iteh.ai/catalog/standards/sist/d928517f-f585-459d-a3d1-217a3d95fa9a/sist-[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.5

factory

facility used by a manufacturer for the production of cement using equipment which is suitable for continuous mass production of cement including, in particular, equipment for adequate grinding and homogenization and the necessary silo capacity for the storage and dispatch of each cement produced

Note 1 to entry: This equipment and the production control applied allow the control of production with sufficient accuracy to ensure that the requirements of the relevant product specification standard are met.

3.6

new factory

factory which is not already producing cement(s) certified using EN 197-2

3.7

existing factory

factory which is already producing cement(s) certified using EN 197-2

3.8

depot

bulk cement handling facility not located at the factory used for the dispatch of cement, whether in bulk or bagged, after transfer or storage where the manufacturer has full responsibility for all aspects of the quality of the cement

3.9

dispatching centre

facility not located at the factory for handling and dispatching of cement received in bulk or in any other condition by activities that shall not modify the characteristics or the integrity of the product received from the manufacturer, where a distributor or an importer has full responsibility for all aspects of the quality of the cement

3.10

distributor

natural or legal person in the supply chain, other than the manufacturer or the importer, who makes a construction product available on the market

[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.11

importer

natural or legal person established within the Union, who places a construction product from a third country on the Union market

[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.12

assessment of the performance

determination of the set of representative performance levels or classes of a construction product, in relation to its essential characteristics, on the basis of testing (including sampling), calculation, tabulated values or descriptive documentation of the product

3.13

confirmation autocontrol testing SIST EN 197-2:2020

continual testing carried out by a distributor/importer which consists of testing of samples taken by the distributor/importer at the point(s) of release from the dispatching centre

3.14

works' quality documentation

documentation that provides information on the factory production control which is applied by a manufacturer at a particular factory to ensure conformity of the cement

4 Factory production control

4.1 General requirements

4.1.1 Concept

Factory production control means the permanent internal control of cement production and consists of internal quality control (see 4.2) complemented by autocontrol testing of samples of cement taken at the point of release¹ (see 4.3).

NOTE The requirements of this document in regards to factory production control take into account the clauses of EN ISO 9001 [11] which are relevant to the production, process control and testing of cement.

4.1.2 Works' quality documentation

The manufacturer's documentation and procedures for factory production control shall be described in a Works' quality documentation, which shall adequately describe, amongst other things, for each factory and depot:

- a) the quality aims and the organizational structure, responsibilities and powers of the management with regard to product quality and the means to monitor the achievement of the required product quality and the effective operation of the internal quality control (see 4.2);
- b) the manufacturing and quality control techniques, processes and systematic actions that will be used (see 4.2.1, 4.2.3 and 4.3.2);
- c) the inspections and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out (see 4.2.2, 4.3.1 and 4.3.3).

The Works' quality documentation shall include an adequate system of documentation (see 4.1.4 and 4.3.4).

The Works' quality documentation shall address and document the procedures operated to ensure that the manufactured cement conforms to the performance(s) declared in accordance with the relevant product standard. The documentation may reference associated documents which provide further details of the autocontrol testing of samples and the internal quality control. For the purpose of this scheme, the term Works' quality documentation shall be considered to include these associated documents.

In the case of an existing quality management system according to EN ISO 9001, the corresponding quality documentation may also be applied for product certification if it meets all the requirements of this document which are relevant to the factory production control of cement.

4.1.3 Management systems

4.1.3.1 Quality policy statement

The Works' quality documentation shall include a statement by management defining its quality policy, objectives and commitments to the attainment of product quality.

¹ This testing corresponds also to the "further testing of samples taken at the manufacturing plant" mentioned in Delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) No 305/2011 (Construction Products Regulation).

4.1.3.2 Quality manager

A quality manager shall be appointed who, irrespective of other responsibilities, shall have defined and adequate authority and responsibility for ensuring that the requirements of this document for the AVCP are implemented and maintained.

4.1.3.3 Internal audits and management review

In order to ensure the continuing suitability and effectiveness of the Work's quality documentation to meet the requirements of this document:

- a) internal audits covering the scope of this Clause 4;
- b) a management review of the functioning and the results of the factory production control, taking into account records of the internal audits

shall be performed at least once a year.

4.1.3.4 Training

The Works' quality documentation shall describe the measures taken to ensure that all the personnel involved in operations that can affect internal quality control and product quality have appropriate experience or training. Appropriate records shall be retained.

4.1.4 System of documentation

4.1.4.1 Document control STANDARD PREVIEW

All documents and data related to factory production control and to this scheme for the AVCP shall be controlled.

This control shall ensure that the appropriate issues of all documents are available at essential locations, that obsolete documents are withdrawn and that changes or modifications to any document are effectively introduced.

A system shall be established to identify the current version of documents in order to prevent the use of non-applicable documents.

4.1.4.2 Quality records

Records shall be retained to provide evidence of factory production control for at least the period required to comply with relevant legislation.

4.2 Internal quality control

4.2.1 Process control

4.2.1.1 General

The Works' quality documentation shall describe the parameters for process planning, process control and testing, inspection, corrective action, verification, dispatch and the associated records for each factory and depot.