STN	Cement. Časť 2: Hodnotenie zhody.	STN EN 197-2
		72 2101

Cement - Part 2: Conformity evaluation

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. 09/14

Obsahuje: EN 197-2:2014

Oznámením tejto normy sa ruší STN EN 197-2 (72 2101) z apríla 2002

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 197-2

January 2014

ICS 91.100.10

Supersedes EN 197-2:2000

English Version

Cement - Part 2: Conformity evaluation

Ciment - Partie 2: Evaluation de la conformité

Zement - Teil 2: Konformitätsbewertung

This European Standard was approved by CEN on 9 November 2013.

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

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents Page				
Foreword4				
1	Scope	5		
2	Normative references	5		
3	Terms and definitions	5		
4	Factory production control by the manufacturer	7		
4.1	General requirements			
4.1.1	Concept			
4.1.2	Works' quality manual			
4.1.3	Management systems			
4.1.4	System of documentation			
4.2	Internal quality control			
4.2.1	Process control			
4.2.2	Measuring and testing	9		
4.2.3	Handling, storage, packaging and delivery	9		
4.3	Autocontrol testing of samples	9		
4.3.1	Sampling and testing	9		
4.3.2	Corrective action	10		
4.3.3	Measuring and test equipment for autocontrol testing	10		
4.3.4	Quality records	10		
5	Tasks for the product certification body	10		
5.1	General			
5.2	Continuous surveillance, assessment and evaluation of the factory production control			
5.2.1	Inspection tasks			
5.2.2	Frequency of inspections			
5.2.3	Reports			
5.3	Evaluation of the results of autocontrol testing of samples			
5.3.1	Evaluation tasks			
5.3.2	Number and timing of evaluations			
5.3.3	Control period			
5.3.4	Evaluation of test results			
5.3.5	Reports			
5.4	Audit testing of samples taken at the factory/depot and determination of the product-type			
	by testing	12		
5.4.1	Sampling	12		
5.4.2	Number of samples	12		
5.4.3	Properties and test methods	12		
5.4.4	Testing	12		
5.4.5	Evaluation of test results	13		
5.4.6	Reports	13		
5.4.7	Proficiency testing	13		
5.5	Initial inspection of the factory and the factory production control	13		
5.5.1	Inspection of a new factory	13		
5.5.2	Inspection of an existing factory			
5.5.3	Criteria for the assessment of the production equipment			
5.5.4	Criteria for the assessment of laboratories			
5.5.5	Reports			
5.6	Evaluation of test results during the initial period			
5.6.1	Initial period			
5.6.2	Evaluation of test results			
5.6.3	Reports	14		

6	Actions in the event of non-conformity	
6.1	Actions to be taken by the manufacturer	
6.2 6.2.1	Actions to be taken by the product certification body Following continuous surveillance, assessment and evaluation of the factory production	15
0.2.1	control (see 5.2) and evaluation of the results of autocontrol testing (see 5.3)	15
6.2.2	Following evaluation of the results of the audit testing of samples taken at the	
	factory/depot (see 5.4 and Annex A)	15
7	Procedure for third party certification of constancy of performance of the product	16
8	Certificate of constancy of performance of the product and conformity mark	
8.1	Indication of constancy of performance of the product	
8.2	Certificate of constancy of performance of the product	
9	Requirements for dispatching centres	
9.1 9.2	General requirements	
9.2 9.2.1	Tasks for the intermediary Measures to maintain the cement quality	
9.2.2	Confirmation autocontrol testing of samples taken at the dispatching centre	
9.3	Tasks for the third party	
9.3.1	Continuous surveillance, assessment and evaluation of the measures to maintain the	40
9.3.2	cement quality and of the confirmation autocontrol Audit testing of samples taken at the dispatching centre	
9.3.3	Decisions to be taken	
	A (normative) Evaluation of the representativeness and the accuracy of the 28 day	
Aillex	strength test results	21
A .1	General	21
A.2	Sets of results considered	21
A.3	Evaluation procedure	21
Annex	B (informative) Procedure for certification of constancy of performance of cement	24
Annex	C (informative) Comparison of terminology according to the CPD and the CPR	25
Biblio	graphygraphy	26
Tables	3	
Table	1 — Actions to be taken by the product certification body in the event of non-conformity of	
	sults of autocontrol and/or audit testing	
	2 — Confirmation and audit testing of samples of certified cement taken at dispatching s: properties and minimum testing frequencies a	20
	A.1 — Symbols	
	A.2 — Numerical criteria for masonry cement conforming to EN 413–1	
	A.3 — Numerical criteria for calcium aluminate cement conforming to EN 14647	
	C.1 — Comparison of terminology according to the CPD and the CPR	
		_

Foreword

This document (EN 197-2:2014) has been prepared by Technical Committee CEN/TC 51 "Cement and building limes", the secretariat of which is held by NBN.

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 July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.

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

This document supersedes EN 197-2:2000.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

Compared to the version EN 197-2:2000, the following major changes have been made in this document:

- use of the terminology given by the Construction Products Regulation (Regulation (EU) No 305/2011) and comparison with the earlier terminology according to the Construction Products Directive (Directive 89/106/EEC) (Annex C);
- link between this European Standard and Annexes ZA of European Standards covering cements;
- guidance concerning the uncertainty of measurements in the evaluation of test results;
- numerical criteria for the evaluation procedure for calcium aluminate cement conforming to EN 14647, (Annex A);
- figure describing the procedure for certification of constancy of performance of cement in a new factory or of a new type of cement in an existing factory (Annex B).

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

1 Scope

This European Standard specifies the scheme for the assessment and verification of constancy of performance (AVCP) of cements to their corresponding product specification standards, including certification of constancy of performance by a product certification body.

The standard provides technical rules for factory production control by the manufacturer, including autocontrol testing of samples, and for the tasks of the product certification body. It also provides rules for actions to be followed in the event of non-conformity, the procedure for the AVCP and requirements for dispatching centres.

In this European Standard, 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 European Standard 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 [1]¹⁾ should be used for the application of this European Standard.

This European Standard should be linked with Annexes ZA of European Standards covering cements and binders, i.e. EN 197-1, EN 14216, EN 14647, EN 413-1, EN 15743, in particular for the assignments of tasks to the manufacturer and to the product certification body.

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, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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

ISO 2854, Statistical interpretation of data - Techniques of estimation and tests relating to means and variances

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹⁾ CEN/TR 14245 is currently in preparation and will revise CR 14245:2001.