



SLOVENSKI STANDARD
SIST EN 15743:2010/kFprA1:2014
01-oktober-2014

Supersulfatni cement - Sestava, zahteve in merila skladnosti za običajne cemente

Supersulfated cement - Composition, specifications and conformity criteria

Sulfathüttenzement - Zusammensetzung, Anforderungen und Konformitätskriterien

Ciment sursulfaté - Composition, spécifications et critères de conformité

Ta slovenski standard je istoveten z: EN 15743:2010/FprA1

[SIST EN 15743:2010/kFprA1:2014](https://standards.iteh.ai/catalog/standards/sist/6282aa92-2eee-49c6-8027-7541a6243601/sist-en-15743-2010-kfpra1-2014)

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ICS:

91.100.10 Cement. Mavec. Apno. Malta Cement. Gypsum. Lime.
Mortar

SIST EN 15743:2010/kFprA1:2014 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 15743:2010

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English Version

Supersulfated cement - Composition, specifications and conformity criteria

Ciment sursulfaté - Composition, spécifications et critères de conformité

Sulfathüttenzement - Zusammensetzung, Anforderungen und Konformitätskriterien

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 51.

This draft amendment A1, if approved, will modify the European Standard EN 15743:2010. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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

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Foreword

This document (EN 15743:2010/FprA1:2014) 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 Unique Acceptance Procedure.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulation(s).

For relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

This European Standard sets out requirements for the composition and specifications of supersulfated cement. The scheme for the evaluation of conformity of supersulfated cement is that specified in EN 197-2.

Compared to the version EN 15743:2010 the following major changes have been included in this document:

- Clause "Dangerous substances";
- Use of the terminology given by the Construction Products Regulation (Regulation (EU) No 305/2011) in 9.1;
- Adaption of Annex ZA to the new CEN template.

The requirements in this European Standard are based on the results of tests on cement in accordance with parts 1, 2, 3, 7, 8 and 9 of EN 196, Methods of testing cement.

Note: Due to fact that the Framework Partnership Agreement between the Commission and CEN & CENELEC is not signed yet, there are currently no New Approach Consultants in place for 2014. Therefore the provisions of CEN-CENELEC Guide 15 cannot be met.

This shall not prevent the processing of draft standards nor the offering of harmonized standards to the Commission. In particular, draft standards can be sent to vote without Consultant assessment.

This note will be removed from the Foreword of the finalized publication.

EN 15743:2010/FprA1:2014 (E)**1 Modification to Clause 2**

Replace "EN 197-2:2000" with EN 197-2:2014".

2 Modification to Clause 7

Add the following new sub-clause 7.5:

"7.5 Dangerous substances

National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets.

In the absence of European harmonized test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.

NOTE An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through: <http://ec.europa.eu/enterprise/construction/cpd-ds/>"

3 Modification to 9.1

Replace the 2nd paragraph and the note with the following:

"Alternative test methods could be used provided that they have been validated in accordance with the appropriate provisions in the cited standards of the reference test methods. In the event of a dispute, only the reference methods are used.

NOTE 1 This standard does not deal with acceptance inspection at delivery.

NOTE 2 For certification of constancy of performance by a notified body, conformity of cement with this standard is evaluated in accordance with EN 197-2.

The compliance of the supersulfated cements with the requirements of this European Standard and with the stated values (including classes) shall be demonstrated by:

- determination of the product type,
- factory production control by the manufacturer, including product assessment."

4 Modification to Annex ZA

Replace the entire Annex ZA with the following text:

"

Annex ZA (informative)

Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation

ZA.1 Scope and relevant characteristics

This European Standard has been prepared under Mandate M/114 "Cement, building limes and other hydraulic binders" given to CEN by the European Commission and the European Free Trade Association.

If this European Standard is cited in the Official Journal of the European Union (OJEU), the clauses of this standard, shown in this annex, are considered to meet the provisions of the relevant mandate, under the Regulation (EU) No. 305/2011.

This annex deals with the CE marking of the common cements intended for the uses indicated in Table ZA.1 and shows the relevant clauses applicable.

This annex has the same scope as in Clause 1 of this standard related to the aspects covered by the mandate and is defined by Table ZA.1.

Table ZA.1 — Relevant clauses

Product: Supersulfated cement			
Intended use: Preparation of concrete, mortar, grout etc. (see notes in this table)			
Essential Characteristics	Clauses in this and other European Standard(s) related to essential characteristics	Regulatory classes	Notes
Supersulfated cements (Subfamilies) constituents and composition	3 4 5 6 8 9	None	Constituents of the supersulfated cement, defined on the basis of constituent materials and composition; selection of supersulfated cement by the Member States in technical regulations for particular intended uses shall be possible, based on the different cement products and on strength classes
Compressive strength (early and standard)	7.1.1 8 9	None	Compressive strength requirements expressed in terms of strength classes and limits
Setting time	7.2.1 9	None	Requirements expressed in terms of lower limits
Insoluble residue	7.3 9	None	Requirements expressed in terms of upper limits
Loss on ignition	7.3 9	None	Requirements expressed in terms of upper limits
Soundness	7.2.2 9	None	Requirements expressed in terms of upper limit
SO ₃ content	7.3 9	None	Requirements expressed in terms of lower and upper limits
Chloride content	7.3 9	None	Requirements expressed in terms of upper limits
Heat of hydration	7.2.3 9	None	Requirements expressed in terms of upper limit
Durability, sulfate resistance	4 5 7.4	None	Durability relates to the concrete, mortar, grout and other mixes made from cement according to the application rules valid in the place of use
Content and/or release of dangerous substances	7.5	None	See 7.5

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The declaration of the product performance related to certain essential characteristics is not required in those Member States (MS) where there are no regulatory requirements on these essential characteristics for the intended use of the product. In this case, manufacturers placing their products on the market of these MS are not obliged to determine nor declare the performance of their products with regard to these essential characteristics and the option “No performance determined” (NPD) in the information accompanying the CE marking and in the declaration of performance (see ZA.3) may be used for those essential characteristics.

ZA.2 Procedure for AVCP of supersulfated cements**ZA.2.1 System of AVCP**

The AVCP system of common cements indicated in Table ZA.1, established by EC Decision 97/555/EC (OJ L229) amended by EC Decision 2010/683/EU (OJ L293), is shown in Table ZA.2 for the indicated intended use(s) and relevant level(s) or class(es) of performance.

Table ZA.2 — System of AVCP

Product(s)	Intended use(s)	Level(s) or class(es)	AVCP system
Supersulfated cement	Preparation of concrete, mortar, grout etc.	None	1+
System 1+: See Regulation (EU) No. 305/2011 (CPR) Annex V, 1.1 with audit testing of samples taken before placing the product on the market.			

The AVCP of the supersulfated cements in Table ZA.1 shall be according to the AVCP procedures indicated in Table ZA.3 resulting from application of the clauses of this or other European Standards indicated therein. The content of tasks of the notified body shall be limited to those essential characteristics as provided for, if any, in Annex III of the relevant mandate and to those that the manufacturer intends to declare.

Table ZA.3 — Assignment of AVCP tasks for supersulfated cements under system 1+

Tasks		Content of the task	Evaluation of conformity clauses to apply in addition to Clause 9 of this standard
Tasks for the manufacturer	Factory production control (FPC)	Parameters related to essential characteristics of Table ZA.1 relevant for the intended use(s) which are declared	EN 197-2:2014, Clause 4
	Further testing of samples taken at factory according to the prescribed test plan	Essential characteristics of Table ZA.1 relevant for the intended use(s) which are declared	EN 197-2:2014, 4.3
Tasks for the notified product certification body	Determination of the product-type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product	Essential characteristics of Table ZA.1 relevant for the intended use(s)	EN 197-2:2014, Clause 5
	Initial inspection of the manufacturing plant and of FPC	Parameters related to essential characteristics of Table ZA.1, relevant for the intended use(s) which are declared. Documentation of the FPC.	EN 197-2:2014, 5.5
	Continuous surveillance, assessment and evaluation of FPC	Parameters related to essential characteristics of Table ZA.1, relevant for the intended use(s) which are declared. Documentation of the FPC.	EN 197-2:2014, 5.2
	Audit testing of samples taken before placing the product on the market	Essential characteristics of Table ZA.1 relevant for the intended use(s) which are declared	EN 197-2:2014, 5.4

ZA.2.2 Declaration of performance (DoP)

ZA.2.2.1 General

The manufacturer draws up the DoP and affixes the CE marking on the basis of the different AVCP systems set out in Annex V of the Regulation (EU) No 305/2011:

- the factory production control and the further testing of samples taken at the factory according to the prescribed test plan, carried out by the manufacturer; and
- the certificate of constancy of performance issued by the notified product certification body on the basis of determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; initial inspection of the manufacturing plant and of factory production control; continuous surveillance, assessment and evaluation of factory production control and audit-testing of samples taken before placing the product on the market.

ZA.2.2.2 Content

The model of the DoP is provided in Annex III of the Regulation (EU) No 305/2011.

According to this Regulation, the DoP shall contain, in particular, the following information:

- the reference of the product-type for which the declaration of performance has been drawn up;
- the AVCP system or systems of the construction product, as set out in Annex V of the CPR;
- the reference number and date of issue of the harmonised standard which has been used for the assessment of each essential characteristic;
- where applicable, the reference number of the Specific Technical Documentation used and the requirements with which the manufacturer claims the product complies.

The DoP shall in addition contain: <http://standards.iteh.ai/catalog/standards/sist/6282aa92-2eee-49c6-8027-7541a6243601/sist-en-15743-2010-kfpra1-2014>

- a) the intended use or uses for the construction product, in accordance with the applicable harmonised technical specification;
- b) the list of essential characteristics, as determined in the harmonised technical specification for the declared intended use or uses;
- c) the performance of at least one of the essential characteristics of the construction product, relevant for the declared intended use or uses;
- d) where applicable, the performance of the construction product, by levels or classes, or in a description, if necessary based on a calculation in relation to its essential characteristics determined in accordance with the Commission determination regarding those essential characteristics for which the manufacturer shall declare the performance of the product when it is placed on the market or the Commission determination regarding threshold levels for the performance in relation to the essential characteristics to be declared.
- e) the performance of those essential characteristics of the construction product which are related to the intended use or uses, taking into consideration the provisions in relation to the intended use or uses where the manufacturer intends the product to be made available on the market;
- f) for the listed essential characteristics for which no performance is declared, the letters "NPD" (No Performance Determined).

Regarding the supply of the DoP, article 7 of the Regulation (EU) No 305/2011 applies.

The information referred to in Article 31 or, as the case may be, in Article 33 of Regulation (EC) No 1907/2006, (REACH) shall be provided together with the DoP.