Peenestatud granuleeritud räbutsemendi kasutamine betooni, mördi ja süstmördi valmistamisel. Osa 2: Vastavushindamine

Ground granulated blast furnace slag for use in concrete, mortar and grout - Part 2: Conformity evaluation



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15167-2:2006 sisaldab Euroopa standardi EN 15167-2:2006 ingliskeelset teksti.

Käesolev dokument on jõustatud 20.09.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 15167-2:2006 consists of the English text of the European standard EN 15167-2:2006.

This document is endorsed on 20.09.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This European Standard specifies the scheme for the evaluation of conformity of ground granulated blastfurnace slag according to EN 15167-1. The European Standard provides technical rules for the production control by the manufacturer, including autocontrol testing of samples. It also provides rules for actions to be followed in the event of non-conformity, the procedure for the certification of conformity and requirements for dispatching centres.

Scope:

This European Standard specifies the scheme for the evaluation of conformity of ground granulated blastfurnace slag according to EN 15167-1. The European Standard provides technical rules for the production control by the manufacturer, including autocontrol testing of samples. It also provides rules for actions to be followed in the event of non-conformity, the procedure for the certification of conformity and requirements for dispatching centres.

ICS 91.100.15

Võtmesõnad:

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 15167-2

August 2006

ICS 91.100.15

English Version

Ground granulated blast furnace slag for use in concrete, mortar and grout - Part 2: Conformity evaluation

Laitier granulé de haut-fourneau moulu pour utilisation dans le béton, mortier et coulis - Partie 2: Evaluation de la conformité Hüttensandmehl zur Verwendung in Beton, Mörtel und Einpressmörtel - Teil 2: Konformitätsbewertung

This European Standard was approved by CEN on 26 June 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents Page Foreword4 Scope. 5 2 3 Tasks for the manufacturer......8 4.1 Factory production control8 4.1.1 Concept8 4.1.2 Management systems......9 4.1.3 System of documentation9 4.1.4 4.2 Internal quality control10 4.2.1 4.2.2 Measuring and testing10 4.2.3 Handling, storage, packaging and delivery......11 Autocontrol testing of samples11 4.3 4.3.1 Sampling and testing.......11 4.3.2 Corrective action11 4.3.3 Measuring and test equipment for autocontrol testing11 4.3.4 Quality records12 Tasks for the certification body......12 5.1 General12 Surveillance, assessment and acceptance of the production control12 5.2 5.2.1 5.2.2 5.2.3 Reports 12 5.3 Evaluation of the results of autocontrol testing of samples12 5.3.1 Number and timing of evaluations13 5.3.2 5.3.3 5.3.4 Evaluation of test results13 5.3.5 Audit testing of samples taken at the factory/depot and initial type testing13 5.4 5.4.1 Number of samples......13 5.4.2 5.4.3 5.4.4 Testing.......14 5.4.5 Evaluation of test results14 5.4.6 5.4.7 5.5 Initial inspection of the factory and the production control......14 5.5.1 Inspection of a new factory......14 5.5.2 Inspection of an existing factory......15 5.5.3 554 5.5.5 Evaluation of test results during the initial period15 56 5.6.1 5.6.2 5.6.3

1	Actions in the event of non-conformity	
	Actions to be taken by the manufacturer	<i>'</i>
	Actions to be taken by the certification body	
	Following surveillance, assessment and acceptance of the production control (see 5.2) and evaluation of the results of autocontrol testing (see 5.3)	
2	Following evaluation of the results of the audit testing of samples taken at the	
	factory/depot (see 5.4 and Annex A) Procedure for third party certification of conformity	
	Certificates of conformity and conformity mark	
	Requirements for dispatching centres	
	General requirements	
	Tasks for the intermediary	
	Measures to maintain the ground granulated blastfurnace slag quality	
2	Confirmation autocontrol testing of samples taken at the dispatching centre	
1	Tasks for the third party	
	Surveillance, assessment and acceptance of the measures to maintain the ground granulated blastfurnace slag quality and of the confirmation autocontrol	
2	Audit testing of samples taken at the dispatching centre	
	Decisions to be taken	
		••••
X	A (normative) Evaluation of the representativeness and the accuracy of the 28 day activity index test results	
	General	
	Sets of results considered	
	Evaluation procedure	
	Introduction	
	Symbols	
	Evaluation of whether set A and set B belong to the same population (sampling	
4	error check)	
	Companson between set o and set c in graer to check the accuracy of the	
	autocontrol testing (testing error check)	
(
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	2
	autocontrol testing (testing error check)	2
	autocontrol testing (testing error check)	2
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	2
,	autocontrol testing (testing error check)	2
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
) (autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
,	autocontrol testing (testing error check)	
) (autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
1	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
) (autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	
	autocontrol testing (testing error check)	2
	autocontrol testing (testing error check)	2

Foreword

This document (EN 15167-2:2006) has been prepared by Technical Committee CEN/TC 104 "Concrete and related products", the secretariat of which is held by DIN.

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 February 2007, and conflicting national standards shall be withdrawn at the latest by May 2008.

The standard EN 15167, is composed of two parts:

- Part 1: Definitions, specifications and conformity criteria
- Part 2: Conformity evaluation

The preparatory work was carried out by WG15 of CEN/TC 104 since November 2003 in which the following countries participated: Austria, Belgium, Czech Republic, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Poland, Spain, Sweden, Switzerland and the United Kingdom.

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

1 Scope

This European Standard specifies the scheme for the evaluation of conformity of ground granulated blastfurnace slag according to EN 15167-1.

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

2 Normative references

The following referenced documents are indispensable for the application 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 196-1, Methods of testing cement — Part 1: Determination of strength

EN 196-7, Methods of testing cement — Methods of taking and preparing samples of cement

EN 15167-1:2006, Ground granulated blast furnace slag for use in concrete, mortar and grout — Part 1: Definitions, specifications and conformity criteria

3 Terms and definitions

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

3.1

autocontrol

continual statistical quality control of the ground granulated blastfurnace slag based on the testing of samples taken by the manufacturer or their agent at point(s) of release from the ground granulated blastfurnace slag factory

[EN 15167-1:2006]

NOTE This testing corresponds also to the "further testing of samples" mentioned in Annex III Section 2 point (i) of the Construction Products Directive 89/106/EEC.

3.2

certificate of conformity

document issued under the rules of a certain scheme for the evaluation of conformity indicating that adequate confidence is provided that ground granulated blastfurnace slag is in conformity with EN 15167-1

3.3

certification

procedure by which a third party gives written assurance that a product, process or service conforms to specified requirements

[EN 45020:1998]