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Interested committees:

Title: Draft BS EN 18136 BS Ground limestone for concrete. Part 1: Definition, specifications and conformity criteria.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Ground limestone for concrete - Part 1: Definition, specifications and conformity criteria

Additions calcaires pour béton - Partie 1 : définition, spécifications and critères de conformité

Gemahlenes Calciumcarbonat für Beton - Teil 1: Definition, Spezifikationen und Konformitätskriterien

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 104.

If this draft becomes a European Standard, 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.

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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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 18136:2025) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by SN.

This document is currently submitted to the CEN Enquiry.

Introduction

The purpose of this document is to specify the requirements for ground limestone for concrete. It is based on a survey that has been carried out in European countries already using ground limestone in concrete, which has enabled the identification of the common core group of characteristics and common values.

The ground limestone referred to in this document, is originated from the exploitation of carbonate rock-forming minerals (limestone, chalk, marble, dolostone).

Ground limestone is used in concrete production in some European countries, based on national experience and tradition.

When using ground limestone conforming to this document, consider that certain properties of fresh and hardened concrete can be influenced. Where relevant, such effects need to be considered in concrete mix design (see EN 206).

1 Scope

This document is applicable to ground limestone intended to be used as concrete addition, and for use in mortar and grouts.

The document specifies requirements for the chemical and physical properties as well as quality control procedures for ground limestone, for use as an addition for production of concrete conforming to EN 206.

This document does not specify provisions for the practical application of ground limestone in the production of concrete.

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 196-1, *Methods of testing cement — Part 1: Determination of strength*

EN 196-2, *Method of testing cement — Part 2: Chemical analysis of cement*

EN 196-3, *Methods of testing cement — Part 3: Determination of setting times and soundness*

EN 196-6, *Methods of testing cement — Part 6: Determination of fineness*

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 933-9, *Tests for geometrical properties of aggregates — Part 9: Assessment of fines - Methylene blue test*

EN 933-10, *Tests for geometrical properties of aggregates — Part 10: Assessment of fines - Grading of filler aggregates (air jet sieving)*

EN 1097-5, *Tests for mechanical and physical properties of aggregates — Part 5: Determination of the water content by drying in a ventilated oven*

EN 1097-7, *Tests for mechanical and physical properties of aggregates — Part 7: Determination of the particle density of filler - Pyknometer method*

EN 1744-1, *Tests for chemical properties of aggregates — Part 1: Chemical analysis*

EN 13639, *Determination of total organic carbon in limestone*

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 <https://www.electropedia.org/>

— ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

ground limestone

fine particles obtained by grinding and/or selection, dry or in aqueous suspension, from carbonate rocks

Note 1 to entry: Eg limestone, chalk, marble, dolostone.

3.2

addition

finely divided inorganic material used in concrete in order to improve certain properties or to achieve special properties

3.3

test cement

selected source of Portland cement according to 4.3.2.1 used for carrying out the tests needed to evaluate conformity to the requirements of 4.3.2.2, 4.3.2.3 and 4.3.2.4

3.4

activity index

percentage of the compressive strength of standard mortar bars, prepared with 75 % test cement plus 25 % ground limestone by mass, to the compressive strength of standard mortar bars prepared with 100 % test cement, when tested at the same age

3.5

autocontrol

continuous statistical quality control of the ground limestone based on the testing of samples taken by the producer or their agent at point(s) of release from the ground limestone producing facility

3.6

control period

period of production and/or dispatch identified for the evaluation of the autocontrol test results

3.7

characteristic value

value of the required property outside of which lies a specified percentage, the percentile P_k , of all the values of the population

3.8

single result limit value

limit value of a chemical or physical property which – for any single test result – in the case of an upper limit is not to be exceeded or in the case of a lower limit is, as a minimum, to be reached

3.9

allowable probability of acceptance CR

for a given sampling plan, the allowed probability of acceptance of ground limestone with a characteristic value outside the specified minimum or maximum values

3.10

sampling plan

specific plan which states the (statistical) sample size(s) to be used, the percentile P_k , and the allowable probability of acceptance CR