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Tests for thermal and weathering properties of aggregates - Part 7: Determination of resistance to freezing and thawing of Lightweight aggregates

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD
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EN 1367-7

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English Version

**Tests for thermal and weathering properties of aggregates - Part
7: Determination of resistance to freezing and thawing of
Lightweight aggregates**

Essais pour déterminer les propriétés thermiques et
l'altérabilité des granulats - Partie 7: Détermination de la
résistance au gel-dégel des granulats légers

Prüfverfahren für thermische Eigenschaften und
Verwitterungsbeständigkeit von Gesteinskörnungen - Teil 7:
Bestimmung des Widerstandes von leichten
Gesteinskörnungen gegen Frost-Tau-Wechsel

This European Standard was approved by CEN on 16 February 2014.

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.



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Foreword

This document (EN 1367-7:2014) has been prepared by Technical Committee CEN/TC 154 "Aggregates", the secretariat of which is held by BSI.

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 October 2014, and conflicting national standards shall be withdrawn at the latest by October 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

EN 1367 "Tests for thermal and weathering properties of aggregates" consists of the following parts:

- *Part 1: Determination of resistance to freezing and thawing*
- *Part 2: Magnesium sulfate test*
- *Part 3: Boiling test for "Sonnenbrand Basalt"*
- *Part 4: Determination of drying shrinkage*
- *Part 5: Determination of resistance to thermal shock*
- *Part 6: Determination of resistance to freezing and thawing in the presence of salt (NaCl)*
- *Part 7: Determination of resistance to freezing and thawing of Lightweight Aggregates (the present document)*
- *Part 8: Determination of resistance to disintegration of Lightweight Aggregates*

Test methods for other properties of aggregates are covered by parts of the following European Standards:

- EN 932, *Tests for general properties of aggregates*
- EN 933, *Tests for geometrical properties of aggregates*
- EN 1097, *Tests for mechanical and physical properties of aggregates*
- EN 1744, *Tests for chemical properties of aggregates*
- EN 13179, *Tests for filler aggregate used in bituminous mixtures*

NOTE This document supersedes the test methods described in EN 13055-1:2002, Annex C and EN 13055-2:2004, Annex B.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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 reference test method used for type testing, and in case of dispute, for determining the resistance to freezing and thawing of lightweight aggregates (LWA) in accordance with EN 13055. For other purposes, in particular for factory production control, other methods may be used provided that an appropriate working relationship with the reference method has been established. The test is applicable to LWA with particle size not less than 4 mm and up to a maximum size of 32 mm.

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 932-1, *Tests for general properties of aggregates - Part 1: Methods for sampling*

EN 932-2, *Tests for general properties of aggregates - Part 2: Methods for reducing laboratory samples*

EN 932-5, *Tests for general properties of aggregates - Part 5: Common equipment and calibration*

EN 933-2, *Tests for geometrical properties of aggregates - Part 2: Determination of particle size distribution - Test sieves, nominal size of apertures*

EN 13055-1, *Lightweight aggregates - Part 1: Lightweight aggregates for concrete, mortar and grout*

EN 13055-2, *Lightweight aggregates - Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications*

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