



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13040:2007

ICS 65.080

**SOIL IMPROVERS AND GROWING MEDIA -
SAMPLE PREPARATION FOR CHEMICAL AND
PHYSICAL TESTS, DETERMINATION OF DRY
MATTER CONTENT, MOISTURE CONTENT
AND LABORATORY COMPACTED BULK
DENSITY**

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EUROPEAN STANDARD

EN 13040

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2007

ICS 65.080

Supersedes EN 13040:1999

English Version

**Soil improvers and growing media - Sample preparation for
chemical and physical tests, determination of dry matter content,
moisture content and laboratory compacted bulk density**

Amendements organiques et supports de culture -
Préparation des échantillons pour les essais physiques et
chimiques, détermination de la teneur en matière sèche, du
taux d'humidité et de la masse volumique compactée en
laboratoire

Bodenverbesserungsmittel und Kultursubstrate -
Probenherstellung für chemische und physikalische
Untersuchungen, Bestimmung des Trockenrückstands, des
Feuchtigkeitsgehaltes und der Laborschüttdichte

This European Standard was approved by CEN on 26 August 2007.

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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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 13040:2007) has been prepared by Technical Committee CEN/TC 223 "Soil improvers and growing media", 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of an identical text or by endorsement, at the latest by April 2008, and conflicting national standards shall be withdrawn at the latest by April 2008.

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 13040:1999.

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Safety warning

Take care when handling samples that may contain sharps or are of a dusty nature. Samples should be handled with latex gloves and in the case of dusty materials with mask and gloves.

EN 13040:2007 (E)

1 Scope

This European Standard specifies a routine method for preparing a sample of soil improver or growing media prior to chemical analysis and physical testing. The procedures described herein apply only to those samples that are supplied to a laboratory in the form in which they will be used for their intended purpose.

NOTE 1 This method is not applicable to liming materials and is not suitable for materials like rockwool and foam slabs.

NOTE 2 The determination of the laboratory compacted bulk density is given in Annex A.

NOTE 3 The results of an interlaboratory trial to determine moisture content are given in Annex B.

NOTE 4 The results of an interlaboratory trial to determine compacted laboratory bulk density are given in Annex B.

NOTE 5 Attention is drawn to the possible existence of national legislation for the declaration of specific products, which could differ from the general requirements of this European Standard.

2 Normative references

The following reference documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12579:1999, *Soil improvers and growing media — Sampling*

ISO 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

3 Terms and definitions

For the purposes of this standard, the terms and definitions in EN 12579:1999 and the following apply.

3.1

test sample

sample prepared from the laboratory sample and from which test portions will be taken

3.2

test portion

quantity of material drawn from the test sample (or from the laboratory sample if both are the same) and on which the tests or observations are actually carried out

3.3

laboratory compacted bulk density

density, expressed in grams per litre of the material as determined in the laboratory using a 1 l cylinder; the sample being compacted under defined conditions

4 Principle

The laboratory sample is coded and sub-divided to prepare the test sample in such a manner as to be representative of the sample as submitted to the laboratory. The sample's intrinsic structure shall be maintained whenever possible.

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