

Mullaparandajad ja kasvukeskkond. Orgaanilise aine sisalduse ja tuhasuse määramine.

Soil improvers and growing media - Determination of organic matter content and ash

EESTI STANDARDI EESSÕNA

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English Version

Soil improvers and growing media - Determination of organic matter content and ash

Amendements du sol et supports de culture -
Détermination de la matière organique et des cendres

Bodenverbesserungsmittel und Kultursubstrate -
Bestimmung des Gehaltes an organischer Substanz und
Asche

This European Standard was approved by CEN on 17 September 2011.

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Foreword

This document (EN 13039:2011) has been prepared by Technical Committee CEN/TC 223 “Soil improvers and growing media”, the secretariat of which is held by ASI.

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of an identical text or by endorsement, at the latest by May 2012, and conflicting national standards shall be withdrawn at the latest by May 2012.

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 13039:1999.

The main change to the previous edition is in the scope.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, 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 the United Kingdom.

1 Scope

This European Standard specifies a routine method for determining the organic matter and the ash content of soil improvers and growing media.

This method is not applicable to liming materials and preformed materials such as mineral wool slabs and foam slabs.

The requirements of the standard may differ from the national legal requirements for the declaration of the products concerned.

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 12579:1999, *Soil improvers and growing media – Sampling*

EN 13040:2007, *Soil improvers and growing media – Sample preparation for chemical and physical tests, determination of dry matter content, moisture content and laboratory compacted bulk density*

ISO 5725 (all parts), *Accuracy (trueness and precision) of measurement methods and results*

3 Terms and definitions

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

3.1

organic matter

carbon fraction of a sample which is free from water and inorganic substances

The organic matter for the purposes of this standard is taken as equal to loss on dry incineration at $(450 \pm 25) ^\circ\text{C}$.

3.2

ash

residual mineral matter remaining after the destruction of organic matter/material by controlled burning

4 Principle

The test portion is dried at $(103 \pm 2) ^\circ\text{C}$, then ashed at $(450 \pm 25) ^\circ\text{C}$. The ash is determined as the residue on ignition. The organic matter is taken to be the loss of mass on ignition. Both are expressed as a percentage by mass of the dried sample.

5 Apparatus

5.1 Drying oven, capable of maintaining a temperature of $(103 \pm 2) ^\circ\text{C}$.

5.2 Electric muffle furnace, capable of maintaining temperatures of $(450 \pm 25) ^\circ\text{C}$ and $(550 \pm 25) ^\circ\text{C}$.