

**Mullaparandajad ja kasvukeskkond.  
Orgaanilise aine sisalduse ja tuhasuse  
määramine.**

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13039:2001 sisaldab Euroopa standardi EN 13039:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.07.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13039:2001 consists of the English text of the European standard EN 13039:1999.</p> <p>This document is endorsed on 19.07.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European standard specifies a method for determining the organic matter and the ash content of soil improvers and growth media.</p>	<p><b>Scope:</b> This European standard specifies a method for determining the organic matter and the ash content of soil improvers and growth media.</p>
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**ICS** 65.080

**Võtmesõnad:**

ICS 65.080

**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 1999-10-23.

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**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
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<b>Contents</b>	<b>Page</b>
Foreword	2
1 Scope	3
2 Normative references	3
3 Terms and definitions	3
4 Principle	3
5 Apparatus	3
6 Procedure	4
7 Calculation and expression of results	4
8 Precision	5
9 Test report	5
Annex A (informative) Results of an interlaboratory trial to determine the organic matter	6
Bibliography	6

## **Foreword**

This European Standard 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 June 2000, and conflicting national standards shall be withdrawn at the latest by June 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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.

NOTE 1 The method is not applicable to liming materials or sewage sludges and is not suitable for materials like rockwool and foam slabs.

NOTE 2 The requirements of the standard may differ from the national legal requirements for the declaration of the products concerned.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 12579                      Soil improvers and growing media - Sampling

EN 13040:1999              Soil improvers and growing media - Sample preparation for chemical and physical tests, determination of dry matter content, moisture content and laboratory compacted bulk density

## 3 Terms and definitions

For the purposes of this standard the terms and definitions in EN 12579 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.

### 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 °C, then ashed at 450 °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 °C ± 2 °C.

5.2 **Electric muffle furnace**, capable of maintaining temperatures of 450 °C ± 10 °C and 550 °C ± 10 °C.

5.3 **Basin**, made from fused silica or quartz, of shallow form with a flat bottom, capable of holding a sample of 5 g. Typical dimensions are 70 mm width and 20 mm height.