

Soil improvers and growing media - Determination of the aerobic biological activity - Part 2: Self heating test for compost

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16087-2:2011 sisaldab Euroopa standardi EN 16087-2:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 16087-2:2011 consists of the English text of the European standard EN 16087-2:2011.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.11.2011.	Date of Availability of the European standard is 02.11.2011.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 65.080

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:
Aru 10, 10317 Tallinn, Eesti; www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:
Aru 10, 10317 Tallinn, Estonia; www.evs.ee; phone 605 5050; e-mail info@evs.ee

ICS 65.080

English Version

**Soil improvers and growing media - Determination of the aerobic
biological activity - Part 2: Self heating test for compost**

Amendements du sol et supports de culture -
Détermination de l'activité biologique aérobie - Partie 2:
Test d'auto-échauffement pour compost

Bodenverbesserungsmittel und Kultursubstrate -
Bestimmung der aeroben biologischen Aktivität - Teil 2:
Selbsterhitzungstest für Kompost

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

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Principle.....	4
3 Apparatus	4
3.1 Dewar vessel	4
3.2 Temperature measurement device	4
3.3 Sieve.....	4
3.4 Temperature controlled room or climate cabinet.....	4
4 Procedure	4
4.1 General.....	4
4.2 Sample preparation	4
4.2.1 General.....	4
4.2.2 Fist test	4
4.3 Determination of self-heating.....	5
5 Expression of results	6
6 Test report	6
Annex A (informative) Validation	7
Bibliography	8

Foreword

This document (EN 16087-2:2011) 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.

SAFETY PRECAUTIONS – Care should be taken when handling substances of caustic nature or samples that may contain sharps or are of a dusty nature.

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 describes a method to determine the aerobic biological activity using a self-heating test. This method is only applicable to composted material.

2 Principle

Measurement of self-heating in a Dewar vessel and measurement of the maximum temperature, where the temperature is an indicator of the state of aerobic biological activity.

3 Apparatus

3.1 Dewar vessel

Volume 1,5 l, internal diameter (100 ± 3) mm.

3.2 Temperature measurement device

Capable of recording a maximum temperature.

3.3 Sieve

10 mm mesh size.

3.4 Temperature controlled room or climate cabinet

4 Procedure

4.1 General

The self-heating test shall be carried out as soon as possible after sampling. If a delay to the start of testing cannot be avoided, cool storage $((5 \pm 3) ^\circ\text{C})$ for up to three days) of the samples is then necessary. Ensure that the temperature of the sample material corresponds to a temperature of $(22 \pm 2) ^\circ\text{C}$ at the beginning of the test.

Record the ambient temperature during the trial to ensure that the required temperature is maintained.

4.2 Sample preparation

4.2.1 General

The fresh test sample is sieved < 10 mm (see 3.3). If more than 30 % of the material is retained on the sieve, the method is not appropriate. The moisture content is adjusted according to the results of a fist test (see 4.2.2).

4.2.2 Fist test

The fist test shall be carried out wearing protective gloves.