

## **Characterization of waste - Guidance on selection and application of screening methods**

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## EESTI STANDARDI EESSÕNA

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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 13.02.2013.	Date of Availability of the European standard is 13.02.2013.
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ICS 13.030.01

English Version

## Characterization of waste - Guidance on selection and application of screening methods

Caractérisation des déchets - Lignes directrices relatives  
au choix et à l'application des méthodes de dépistage

Charakterisierung von Abfall - Anleitung für Auswahl und  
Anwendung von Screening-Verfahren

This European Standard was approved by CEN on 7 December 2012.

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.

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# Contents

Page

Foreword.....	4
1 Scope .....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 Principles.....	6
5 Typical areas for application of screening methods.....	7
5.1 General.....	7
5.2 Support of sampling/sample preparation processes.....	7
5.3 On-site verification .....	7
5.4 Monitoring of processes .....	7
5.5 Identification of homogeneity/heterogeneity of bulk material .....	7
5.6 Survey of contaminated sites (hot spot identification).....	7
5.7 Identification of sources of contamination .....	7
5.8 Safety issue .....	7
6 Selecting a screening method.....	8
6.1 Selection criteria .....	8
6.1.1 Sampling/sample pretreatment/preparation .....	8
6.1.2 Parameter definition .....	8
6.1.3 Field of application .....	8
6.1.4 Boundary conditions .....	8
6.2 Fit-for-purpose test.....	9
6.3 Quality targets.....	9
7 Applicability conditions for screening methods .....	9
7.1 General.....	9
7.2 Field of application .....	9
7.2.1 Principle of the measurement .....	9
7.2.2 Instruction for method setup.....	10
7.2.3 Sampling and samples.....	10
7.2.4 Measurement steps .....	10
7.2.5 Statement of results .....	10
7.2.6 Disposal instructions .....	10
7.2.7 Characteristic data of the method.....	10
7.2.8 Literature references .....	11
8 Fit-for-purpose testing .....	11
8.1 General.....	11
8.2 Reproducibility testing.....	11
8.3 Exclusion of false negative results.....	11
8.4 Testing of individual comparability .....	12
9 Analytical acceptance criteria .....	12
9.1 General.....	12
9.2 Starting criteria .....	12
9.3 Continuous criteria .....	12
10 Quality assurance .....	12
11 Documentation.....	13
Annex A (informative) Decision making process.....	14

<b>Annex B</b> (informative) <b>Example of documentation aid/check list</b> .....	<b>15</b>
<b>Annex C</b> (informative) <b>Statistical tool for individual comparability – Equality of results from reference method and screening method: Mean value t-test for real samples</b> .....	<b>18</b>
<b>C.1</b> <b>General</b> .....	<b>18</b>
<b>C.2</b> <b>Test on outliers</b> .....	<b>18</b>
<b>C.3</b> <b>Homogeneity of variances</b> .....	<b>18</b>
<b>C.4</b> <b>Mean value t-test</b> .....	<b>19</b>
<b>Bibliography</b> .....	<b>21</b>

## Foreword

This document (EN 16123:2013) has been prepared by Technical Committee CEN/TC 292 "Characterization of waste", the secretariat of which is held by NEN.

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 August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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.

The standardization of the selection and application of screening methods is obligatory to make such methods available to legislation. In addition to common laboratory methods, which are standardized individually, a framework approach is chosen for screening methods. The application of screening methods within this framework guarantees the reliability of results required by legal regulations.

In order to fulfil legal requirements, it is of high importance to document all decision steps of method selection, the applicability testing, the application of the method and the evaluation.

This European Standard refers to the use of screening methods on solid materials (waste) as sample matrix; the corresponding standard for water is ISO 17381.

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.

## Introduction

This document provides guidance on the use of screening methods for waste characterisation. One field of application of screening methods is “on-site verification” as recommended in the Landfill Directive (1999/31/EC) and the Landfill Decision (2003/33/EC).

Screening methods are of increasing interest in processes such as entrance control because, in addition to standardized methods, they allow fast verification of the documented waste characteristics.

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## 1 Scope

This European Standard gives guidance on the selection and application of screening methods for waste characterisation. The aim of this document is to set up criteria as to when the different kinds of screening methods may be applied for the analysis of a certain parameter in waste and which steps are required to prove their suitability.

This document does not recommend any particular screening method, but confirms the principles of its selection and application.

## 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 16192, *Characterization of waste — Analysis of eluates*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1  
reference method**  
method which is performed in accordance with national or international Standards and is not necessarily comparable with screening methods

**3.2  
on-site verification**  
third level of inspection according to the Landfill Directive and the Landfill Decision to ensure that the waste accepted at a landfill is the same as described in the accompanying documents and that it is in accordance with the basic characterisation and/or compliance testing

**3.3  
screening**  
application of any analytical semi-quantitative method for exploratory analysis

**3.4  
screening method**  
method which is used (often on-site) to quickly explore a given area or test a set of samples and obtain data on sample characteristics

[SOURCE: ISO 12404, modified]

## 4 Principles

This standard defines the whole process from the selection of the screening method, applicability, fit-for-purpose testing, fulfilment of the acceptance criteria, quality control, and documentation of the measurement results.