Jord, affald, bioaffald, og slam – Bestemmelse af totalindholdet af organisk carbon (TOC) ved tørforbrænding

Soil, waste, treated biowaste and sludge – Determination of total organic carbon (TOC) by dry combustion

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EUROPEAN STANDARD EN 15936

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English Version

Soil, waste, treated biowaste and sludge - Determination of total organic carbon (TOC) by dry combustion

Sols, déchets, biodéchets traités et boues - Dosage du carbone organique total (COT) par combustion sèche

Boden, Abfall, behandelter Bioabfall und Schlamm - Bestimmung des gesamten organischen Kohlenstoffs (TOC) mittels trockener Verbrennung

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European foreword

This document (EN 15936:2022) has been prepared by Technical Committee CEN/TC 444 "Environmental characterization of solid matrices", 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of an identical text or by endorsement, at the latest by August 2022, and conflicting national standards shall be withdrawn at the latest by month August 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15936:2012.

This document combines methods from EN 15936:2012 and EN 13137:2001.

The main changes compared to the previous edition are as follows:

— New composition of the substances in control mixture A (6.10) was defined and the recovery requirement (9.3) was adapted to the results of a lab trial;

— Annex C – "Determination of total organic carbon (TOC) in solid samples using the suspension method" was skipped;

— The text was editorially revised.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

This document is applicable and validated for several types of matrices as indicated in Table 1 (see also Annex A for the results of the validation). The results in this document are expressed in % C in relation to the dry mass (dm).

Table 1 — Matrices for which this document is applicable and validated

Matrix	Materials used for validation
Sludge	Municipal sludge
Biowaste	Compost, Fresh Compost
Soil	Sludge amended soil, Agricultural soil
Waste	Filter cake, Bottom ash, Electro-plating sludge, Dredged sludge, Rubble

WARNING — Persons using this document should be familiar with usual laboratory practice. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

IMPORTANT — It is absolutely essential that tests conducted according to this document be carried out by suitably trained staff.

Soil, waste, treated biowaste and sludge – Determination of total organic carbon (TOC) by dry combustion

1 Scope

This document specifies two methods for the determination of total organic carbon (TOC) in sludge, treated biowaste, soil and waste samples containing more than 0,1 % carbon in relation to the dry mass (dm).

NOTE — This method can also be applied to other environmental solid matrices, provided the user has verified the applicability.

2 Normative references

There are no normative references in this document.