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BSI Standards Publication

Compost and digestate properties when used in fertilizing products

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National foreword

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Compost and digestate properties when used in fertilizing products

Propriétés du compost et du digestat lorsqu'ils sont utilisés dans des fertilisants

Eigenschaften von Kompost und Gärrückständen bei Verwendung in Düngeprodukten

This Technical Specification (CEN/TS) was approved by CEN on 3 January 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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European foreword

This document (CEN/TS 17730:2022) has been prepared by Technical Committee CEN/TC 223 “Soil improvers and growing media”, the secretariat of which is held by NEN.

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Introduction

An EU fertilizing product consists solely of component materials complying with the requirements for one or more of the component material categories (CMCs), as specified in the Regulation (EU) 2019/1009 [1].

Compost has been classified as CMC 3, fresh crop digestate as CMC 4 and digestate other than fresh crop digestate, as CMC 5 as specified in the Regulation (EU) 2019/1009 [1].

The specific safety and quality requirements in relation to some of the specific parameters (i.e. macroscopic impurities, oxygen uptake rate and the self-heating factor) are specified in this document, as well as normative references of the test methods to be used in order to measure the compliance with the related requirement.

1 Scope

This document provides an overview of relevant methods for the properties of compost and solid digestate when used in fertilizing products, including:

— macroscopic impurities;

— oxygen uptake rate;

— self-heating factor.

This document is applicable to the following component material categories: CMC 3, CMC 4 and CMC 5, as specified in the Regulation (EU) 2019/1009 [1].

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

CEN/TS 17732:2022, *Soil improvers and growing media — Terminology*

CEN/TS 17733:2022, *Soil improvers and growing media — Sampling and sample preparation*

EN 16087-1:2020, *Soil improvers and growing media — Determination of the aerobic biological activity — Part 1: Oxygen uptake rate (OUR)*

EN 16087-2:2011, *Soil improvers and growing media – Determination of the aerobic biological activity — Part 2: Self heating test for compost*

CEN/TS 16202:2013, *Sludge, treated biowaste and soil – Determination of impurities and stones*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in CEN/TS 17732:2022 apply.

4 Sampling and sample preparation

4.1 Sampling

Samples taken for quality control purposes shall be representative, as described in CEN/TS 17733:2022.

4.2 Sample preparation

Sample preparation shall be carried out in accordance with CEN/TS 17733:2022.

5 Determination

5.1 Determination of the content of macroscopic impurities (glass, metal, plastics) above 2 mm

For the determination of the content of macroscopic impurities (glass, metal, plastics) above 2 mm in compost and digestate other than fresh crop digestate the dry sieving method as described in CEN/TS 16202:2013 shall be used. The method is only applicable to solid or pasty CMCs. Although the method in CEN/TS 16202:2013 describes the determination of stones and other materials, only glass, metal, plastics need to be determined.