

English Version

**Solid recovered fuels - Determination of moisture content using
the oven dry method - Part 2: Determination of total moisture
content by a simplified method**

Combustibles solides de récupération - Détermination de
l'humidité par la méthode de séchage à l'étuve - Partie 2 :
Détermination de l'humidité totale par une méthode
simplifiée

Feste Sekundärbrennstoffe - Bestimmung des
Wassergehaltes unter Verwendung des Verfahrens der
Ofentrocknung - Teil 2: Bestimmung des Gesamtgehaltes
an Wasser mittels eines vereinfachten Verfahrens

This Technical Specification (CEN/TS) was approved by CEN on 27 March 2010 for provisional application.

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Foreword

This document (CEN/TS 15414-2:2010) has been prepared by Technical Committee CEN/TC 343 "Solid recovered fuels", the secretariat of which is held by SFS.

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This document supersedes CEN/TS 15414-2:2006.

CEN/TS 15414 „*Solid recovered fuels — Determination of moisture content using the oven dry method*“ consists of the following parts:

- *Part 1: Determination of total moisture by a reference method*
- *Part 2: Determination of total moisture by a simplified method*
- *Part 3: Moisture in general analysis sample* (EN)

This document differs from CEN/TS 15414-2:2006 only by editorial changes.

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1 Scope

This Technical Specification specifies a method for the determination of total moisture content of solid recovered fuels (SRF) by drying a sample in an oven. This method is suitable for use for routine production control on site, e.g. if a high precision of the determination of moisture content is not required. It is applicable to all solid recovered fuels.

NOTE 1 The total moisture content of recovered fuels is not an absolute value and therefore standardised conditions for its determination are indispensable to enable comparative determinations.

NOTE 2 The term moisture content when used with SRF can be misleading since these materials often contain varying amounts of volatile compounds (extractives) which can evaporate if determining moisture content by oven drying.

NOTE 3 This Technical Specification is based on EN 14774-2.

2 Normative references

The following referenced documents are indispensable for the application 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.

prEN 15357:2008, *Solid recovered fuels — Terminology, definitions and descriptions*

prEN 15442, *Solid recovered fuels — Methods for sampling*

prEN 15443, *Solid recovered fuels — Methods for laboratory sample preparation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 15357:2008 apply.

4 Principle

The sample of recovered fuel is dried at a temperature of 105 °C in air atmosphere until constant mass is reached. The mass fraction of moisture in percent is calculated from the loss in mass of the sample.

5 Apparatus

5.1 Drying oven, capable of being controlled at (105 ± 2) °C (see declaration of the manufacturer) and in which the air atmosphere changes between three and five times per hour. The air velocity shall be such that the sample particles are not dislodged from their drying container (5.2).

5.2 Drying container of non-corrodible and heat-resistant material, e.g. metal tray, glass dish, porcelain dish.

5.3 Balance, capable of weighing the sample and drying container (5.2), as received, to the nearest 0,1 g.

6 Sample preparation

6.1 The sample shall be taken and prepared in accordance with prEN 15442 and prEN 15443. It shall be delivered into the laboratory in sealed water resistant and airtight containers or bags.