

Solid recovered fuels - Determination of particle size distribution - Part 1: Screen method for small dimension particles

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15415-1:2011 sisaldab Euroopa standardi EN 15415-1:2011 ingliskeelset teksti.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 30.09.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

**Solid recovered fuels - Determination of particle size distribution
- Part 1: Screen method for small dimension particles**

Combustibles solides de récupération - Détermination de la
distribution granulométrique - Partie 1: Méthode de criblage
pour des particules de petites dimensions

Feste Sekundärbrennstoffe - Bestimmung der
Partikelgrößenverteilung - Teil 1: Siebverfahren für kleine
Partikel

This European Standard was approved by CEN on 15 July 2011.

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Foreword

This document (EN 15415-1:2011) has been prepared by Technical Committee CEN/TC 343 “Solid recovered fuels”, the secretariat of which is held by SFS.

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of an identical text or by endorsement, at the latest by March 2012, and conflicting national standards shall be withdrawn at the latest by March 2012.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.

This document supersedes CEN/TS 15415:2006.

EN 15415, *Solid recovered fuels — Determination of particle size distribution*, consists of the following parts:

- *Part 1: Screen method for small dimension particles*;
- *Part 2: Maximum projected length method (manual) for large dimension particles* (draft standard);
- *Part 3: Method by image analysis for large dimension particles* (draft standard).

This document differs from CEN/TS 15415:2006 mainly as follows:

- a) large pieces with irregular shape definitely excluded from the scope;
- b) whole document editorially revised.

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 specifies the determination of particle size distribution of solid recovered fuels by a machine or manual sieving method. It applies to particulate agglomerated and non-agglomerated fuels, such as fluff, pellets, briquettes, pulverised solid recovered fuels.

This sieving method is not applicable to large pieces with irregular shape such as the pieces of shredded tyres or of demolition wood. In the case, of large pieces of irregular shape, prEN 15415-2 and prEN 15415-3 are applicable.

NOTE 1 For fine particles < 1 mm (e.g. sludges), the use of other methods could give more representative results as e.g. an analysis with the laser diffraction method in accordance with ISO 13320.

NOTE 2 This European Standard is based on EN 15149-1 applicable to particle sizes less than 3,15 mm.

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.

EN 15357:2011, *Solid recovered fuels — Terminology, definitions and descriptions*

CEN/TS 15414-2, *Solid recovered fuels — Determination of moisture content using the oven dry method — Part 2: Determination of total moisture content by a simplified method*

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

EN 15443, *Solid recovered fuels — Methods for the preparation of the laboratory sample*

ISO 3310-1 *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 3310-2, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15357:2011 apply.

4 Principle

A sample is subjected to sieving through horizontally oscillating sieves, sorting the particles in decreasing size classes either manually or by machine sieving. For particles less than 25 mm, only machine sieving is used, for particles greater than 25 mm, manual or machine sieving is applied.