

ICS 75.160.10

English Version

**Solid recovered fuels - Determination of particle size distribution
by screen method**

Combustibles solides de récupération - Détermination de la
granulométrie et de sa distribution par méthode par
tamisage

Feste Sekundärbrennstoffe - Bestimmung der
Teilchengrößenverteilung mittels Siebanalyse

This Technical Specification (CEN/TS) was approved by CEN on 25 March 2006 for provisional application.

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Foreword

This document (CEN/TS 15415:2006) has been prepared by Technical Committee CEN/TC 343 "Solid recovered fuels", the secretariat of which is held by SFS.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, 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 Technical Specification 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.

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 13320-1 [1].

NOTE 2 This Technical Specification is based on CEN/TS 15149-1 [2] but also applicable to particle sizes less than 3,15 mm.

2 Normative references

The following referenced documents are indispensable for the application of this Technical Specification. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CEN/TS 15357:2006, *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 by a simplified method*

prCEN/TS 15442, *Solid recovered fuels — Sampling — Part 1: Methods for sampling*

prCEN/TS 15443, *Solid recovered fuels — Methods for laboratory sample preparation*

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 purpose of this Technical Specification, the terms and definitions given in CEN/TS 15357:2006 apply.

4 Principle

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

5 Apparatus

5.1 Sieve

5.1.1 General

The sieve (e.g. the geometry of the apertures, the thickness of the sieve, hole distances) shall be in accordance with ISO 3310-1 and ISO 3310-2. The geometry of the apertures shall be either circular or square and shall be reported.