

English Version

Solid recovered fuels - Determination of mechanical durability of pellets

Combustibles solides de récupération - Méthode de détermination de la résistance des granulés

Feste Sekundärbrennstoffe - Bestimmung der mechanischen Festigkeit von Pellets

This Technical Specification (CEN/TS) was approved by CEN on 12 June 2010 for provisional application.

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Foreword

This document (CEN/TS 15639:2010) has been prepared by Technical Committee CEN/TC 343 "Solid recovered fuels", the secretariat of which is held by SFS.

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 15639:2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

CEN/TS 15639:2007 was not converted into a European Standard as the test method specified in this document was not validated (see [1], [2]).

This document differs from CEN/TS 15639:2007 mainly as follows:

- a) Specifications regarding the sieves to be used changed;
- b) whole document editorially revised.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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 document specifies a test method for the determination of mechanical durability of pellets. It is intended to be applied by persons and organisations that manufacture, plan, sell, erect or use machinery, equipment, tools and entire plants related to such pellets, and that are involved in producing, purchasing, selling and utilising pellets.

The method specified is not applicable to soft pellets.

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 the preparation of the laboratory sample*

CEN/TS 15414-1, *Solid recovered fuels — Determination of moisture content using the oven dry method — Part 1: Determination of total moisture by a reference method*

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*

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 prEN 15357:2008 and the following apply.

3.1 mechanical durability

measure of resistance of densified fuels towards shocks and/or abrasion as a consequence of handling and transportation processes, characterized by pellets disintegration and fines formation

3.2 fines

particles with a diameter less than 1 mm

NOTE Fines characterize the potential of high dust emission.

3.3 soft pellet

pellet with a density less than 600 kg/m³