

Tahked biokütused. Graanulite ja brikettide mehaanilise vastupidavuse määramine. Osa 1: Graanulid

Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 1: Pellets

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15210-1:2010 sisaldab Euroopa standardi EN 15210-1:2009 ingliskeelset teksti.

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English Version

**Solid biofuels - Determination of mechanical durability of pellets
and briquettes - Part 1: Pellets**

Biocombustibles solides - Détermination de la résistance
mécanique des granulés et des briquettes - Partie 1 :
Granulés

Feste Biobrennstoffe - Bestimmung der mechanischen
Festigkeit von Pellets und Briketts - Teil 1: Pellets

This European Standard was approved by CEN on 10 October 2009.

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Foreword

This document (EN 15210-1:2009) has been prepared by Technical Committee CEN/TC 335 “Solid biofuels”, the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

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1 Scope

This European Standard aims to define the requirements and method used for testing the mechanical durability of pellets. It is intended for persons and organisations that manufacture, plan, sell, erect or use machinery, equipment, tools and entire plants related to such pellets, and to all persons and organisations involved in producing, purchasing, selling and utilising pellets.

The durability is the measure of the resistance of densified fuels towards shocks and/or abrasion as a consequence of handling and transportation processes.

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.

CEN/TS 14588:2003, *Solid biofuels — Terminology, definitions and descriptions*

EN 14774-1, *Solid biofuels — Determination of moisture content — Oven dry method — Part 1: Total moisture — Reference method*

EN 14774-2, *Solid biofuels — Determination of moisture content — Oven dry method — Part 2: Total moisture — Simplified method*

CEN/TS 14778-1, *Solid biofuels — Sampling — Part 1: Methods for sampling*

CEN/TS 14780, *Solid biofuels — Methods for sample preparation*

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 CEN/TS 14588:2003 apply.

4 Principle

The test sample is subjected to controlled shocks by collision of pellets against each other and against the walls of a specified rotating test chamber. The durability is calculated from the mass of sample remaining after separation of abraded and fine broken particles.

5 Apparatus

5.1 Pellet tester

The structure and dimensions of the pellets tester are shown in Figure 1 (see also informative Annex A).