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SOLID BIOFUELS - METHODS FOR THE DETERMINATION OF MECHANICAL DURABILITY OF PELLETS AND BRIQUETTES - PART 1: PELLETS

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English Version

Solid biofuels - Methods for the determination of mechanical durability of pellets and briquettes - Part 1: Pellets

Feste Biobrennstoffe - Verfahren zur Bestimmung der mechanischen Festigkeit von Pellets und Presslingen - Teil 1: Pellets

This Technical Specification (CEN/TS) was approved by CEN on 1 August 2005 for provisional application.

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Contents

page

Foreword 3
1 Scope 4
2 Normative references 4
3 Terms and definitions 4
4 Principle 4
5 Apparatus 4
6 Sample preparation 6
7 Procedure 6
8 Calculation of the mechanical durability: 6
9 Precision and bias 7
10 Test report 7
Annex A (informative) Example of pellet tester with two boxes 8
Bibliography 9

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Foreword

This Technical Specification (CEN/TS 15210-1:2005) has been prepared by Technical Committee CEN/TC 335 “Solid biofuels”, the secretariat of which is held by SIS.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this CEN 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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This working document 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 in 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*

CEN/TS 14774-1, *Solid biofuels - Methods for determination of moisture content - Oven dry method - Part 1: Total moisture - Reference method*

CEN/TS 14774-2, *Solid biofuels - Methods for the 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 14778-2, *Solid biofuels – Sampling – Part 2: Methods for sampling particulate material transported in lorries*

CEN/TS 14779, *Solid biofuels – Sampling – Methods for preparing sampling plans and sampling certificates*

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 Technical Specification, 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 others and against the walls of a defined 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

Description

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

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