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SOLID RECOVERED FUELS - METHODS FOR LABORATORY SAMPLE PREPARATION

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English Version

Solid recovered fuels - Methods for laboratory sample preparation

Combustibles solides de récupération - Méthodes de préparation des échantillons de laboratoire

Feste Sekundärbrennstoffe - Verfahren zur Herstellung von Laboratoriumsproben

This Technical Specification (CEN/TS) was approved by CEN on 13 May 2006 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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Foreword

This document (CEN/TS 15443:2006) has been prepared by Technical Committee CEN/TC 343 “Solid recovered fuels”, the secretariat of which is held by SFS.

This Technical Specification is one of series of technical specifications dealing with solid recovered fuel.

CEN/TS 15442, *Solid recovered fuels — Methods for sampling*

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

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

Solid recovered fuels are a major source of renewable energy. Technical Specifications are needed for production, trade and use of solid recovered fuels. For sampling and sample preparation of solid recovered fuels the following Technical Specifications can be used:

CEN/TS 15442, *Solid recovered fuels — Methods for sampling;*

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

Current practice and the best available knowledge have been used to write these Technical Specifications. The results of recent sampling experiments may be used to improve the sampling plans.

These Technical Specifications can be used by production and trading of solid recovered fuels. They are also useful for buyers of solid recovered fuels, regulators, controllers and laboratories.

Figure 1 shows the links between the essential elements of a testing program.

The sample preparation technique adopted depends on a combination of different characteristics of the material and circumstances encountered at the sampling location. The determining factors are:

— the type of solid recovered fuel;

— the physical behaviour of the specific solid recovered fuel;

— the (expected) degree of heterogeneity (e.g. monostreams, mixed fuels, blended fuels);

For the sample preparation of solid biofuels a Technical Specification from CEN/TC 335 is available (1). For the characterization of waste a European standard is available from CEN/TC 292 (2).