

Solid recovered fuels — Specifications and classes

ICS 75.160.10

National foreword

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Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the European organization responsible for its conversion to a European standard. A review of this publication will be initiated 2 years after its publication by the European organization so that a decision can be taken on its status at the end of its 3-year life. Notification of the start of the review period will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a European standard, to extend the life of the Technical Specification or to withdraw it. Comments should be sent in writing to the Secretary of BSI Technical Committee PTI/17, Solid biofuels, at British Standards House, 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where possible, an appropriate revision of the text.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

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English Version

Solid recovered fuels - Specifications and classes

Combustibles solides de récupération - Spécification et classes

Feste Sekundärbrennstoffe - Spezifikationen und Klassen

This Technical Specification (CEN/TS) was approved by CEN on 21 February 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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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This Technical Specification (CEN/TS 15359:2006) has been prepared by Technical Committee CEN/TC 343 “Solid recovered fuels”, the secretariat of which is held by SFS.

The scope for this Technical Specification is based on the mandate M/325 given by the European Commission to CEN on 2002-08-26.

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

The objective of this Technical Specification is to provide unambiguous and clear classification and specification principles for Solid Recovered Fuels (SRFs). The Technical Specification aims at serving as a tool to enable efficient trading of SRFs, promoting their acceptability on the fuel market and increasing the public trust. The Technical Specification will facilitate a good understanding between seller and buyer, facilitate purchase, transborder movements, use and supervision as well as a good communication with equipment manufacturers. It will also facilitate authority permission procedures and ease the reporting on the use of fuels from renewable energy sources and on other environmental issues.

SRFs are produced from non hazardous waste.¹⁾ The input waste can be production specific waste, municipal solid waste, industrial waste, commercial waste, construction and demolition waste, sewage sludge etc. It is thus obvious that SRFs are a heterogeneous group of fuels. A well defined system for classification and specification is therefore of great importance to reach the above mentioned objectives and intentions.

This Technical Specification covers all types of SRFs and will thus have a wide field of application. It supports the objectives and implementation of the EU waste hierarchy as defined in article 3.1 of the waste framework directive 75/442 modified by the directive 91/156.

This Technical Specification describes the compliance rules which a SRF has to meet to be classified according to the classification system. It also describes how the supplier can establish a declaration of conformity to the different Technical Specifications for SRFs (see Clause 2).

Figure 1 illustrates a simplified flow chain for SRFs, from input of waste to end use of SRFs. This Technical Specification has an interface to all the stages in the chain, but SRF classification and specification are applicable at the point of delivery as shown in the figure. Requirements for how the input waste is collected and how to use the fuel are not part of this Technical Specification.

¹⁾ Hazardous waste is defined in the Directive on hazardous waste (91/689/EEC) and its amendments, and are elucidated and exemplified in the waste list ((Commission decision 2000/532) and its amendments, in particular 2001/118/EC).

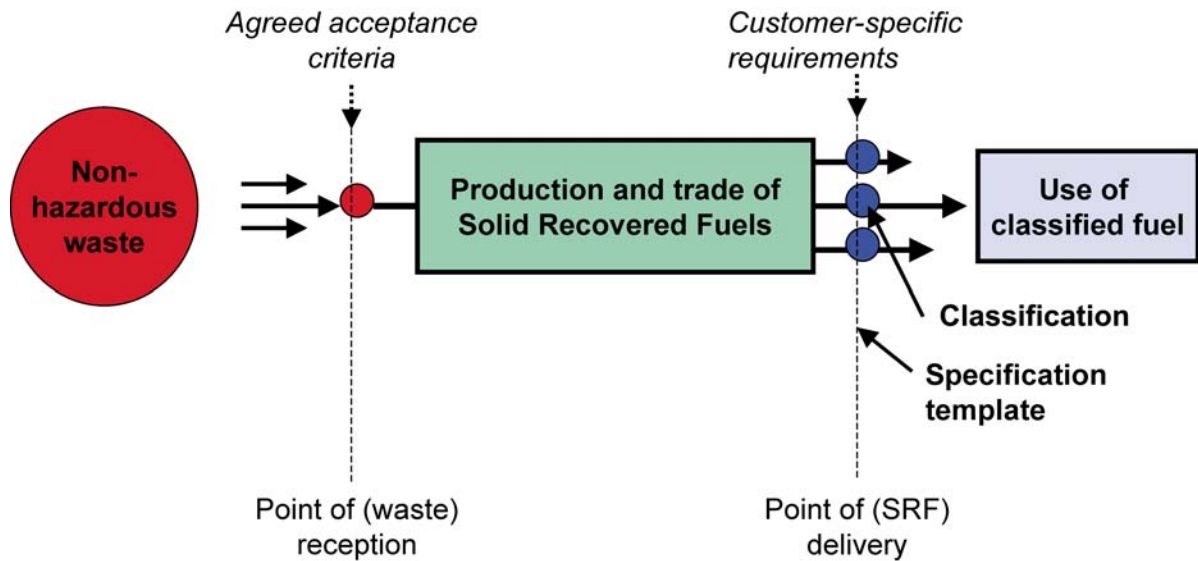


Figure 1 — Solid recovered fuels chain — The Technical Specification on specification and classes is applicable at the point of delivery

1 Scope

This Technical Specification specifies a classification system for SRFs and a template for the specification of their properties.

SRFs are produced from non-hazardous waste.

NOTE 1 Solid bio-fuels excluded from the Waste Incineration Directive (2000/76/EC) are not included in the scope of this Technical Specification. These are dealt with in CEN/TC 335 "Solid biofuels". Waste wood from demolition of buildings and civil engineering installations is, however, included in the scope.

NOTE 2 Untreated municipal solid waste is not included in the scope of this Technical Specification.

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*

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

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

prCEN/TS 15400, *Solid recovered fuels — Methods for the determination of calorific values*

prCEN/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*

prCEN/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*