INTERNATIONAL STANDARD

ISO 17831-2

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Solid biofuels — Determination of mechanical durability of pellets and briquettes —

Part 2: Briquettes

Biocombustibles solides — Détermination de la résistance mécanique des granulés et des briquettes —

Partie 2: Briquettes

Reference number
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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 238, *Solid biofuels*.

ISO 17831 consists of the following parts under the general title *Solid Biofuels — Determination of mechanical durability of pellets and briquettes*:

— *Part 1: Pellets*

— *Part 2: Briquettes*

Introduction

Compressed solid biomass fuel is usually assigned to either pellets or briquettes, of which pellets usually have a diameter below 25 mm, while for briquettes, the diameter is higher (see ISO 17225-1). To account for the different particle dimensions, it was necessary to define different test apparatuses.

Solid biofuels — Determination of mechanical durability of pellets and briquettes —

Part 2: Briquettes

1 Scope

This part of ISO 17831 defines a method for determining the mechanical durability of briquettes. The mechanical durability is a measure of the resistance of compressed fuels towards shocks and/or abrasion as a consequence of handling and transportation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 14780, *Solid biofuels — Sample preparation*[1)]

ISO 16559, *Solid biofuels — Terminology, definitions and descriptions*

ISO 18134-1, *Solid biofuels — Determination of moisture content — Oven dry method — Part 1: Total moisture — Reference method*

ISO 18134-2, *Solid biofuels — Determination of moisture content — Oven dry method — Part 2: Total moisture — Simplified method*

ISO 18135, *Solid Biofuels — Sampling*[1)]

3 Terms and definitions

For the purpose of this document, the terms and definitions given in ISO 16559 apply.

4 Principle

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

1) In preparation.