

STN	Tuhé biopalivá Stanovenie mechanickej odolnosti peliet a brikiet Časť 2: Brikety (ISO 17831-2: 2025)	STN EN ISO 17831-2 65 7407
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Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 2: Briquettes (ISO 17831-2:2025)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/25

Obsahuje: EN ISO 17831-2:2025, ISO 17831-2:2025

Oznámením tejto normy sa ruší
STN EN ISO 17831-2 (65 7407) z júla 2016

140777

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN ISO 17831-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2025

ICS 27.190; 75.160.40

Supersedes EN ISO 17831-2:2015

English Version

Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 2: Briquettes (ISO 17831-2:2025)

Biocombustibles solides - Détermination de la résistance mécanique des granulés et des briquettes - Partie 2: Briquettes (ISO 17831-2:2025)

Biogene Festbrennstoffe - Bestimmung der mechanischen Festigkeit von Pellets und Briketts - Teil 2: Briketts (ISO 17831-2:2025)

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EN ISO 17831-2:2025 (E)

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European foreword

This document (EN ISO 17831-2:2025) has been prepared by Technical Committee ISO/TC 238 "Solid Biofuels and Pyrogenic Biocarbon" in collaboration with Technical Committee CEN/TC 335 "Solid Biofuels and Pyrogenic Biocarbon" 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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 17831-2:2015.

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Endorsement notice

The text of ISO 17831-2:2025 has been approved by CEN as EN ISO 17831-2:2025 without any modification.



International Standard

ISO 17831-2

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

**Second edition
2025-04**

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Published in Switzerland

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ISO 17831-2:2025(en)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 238, *Solid biofuels and pyrogenic biocarbon*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 335, *Solid biofuels and pyrogenic biocarbon*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 17831-2:2015), which has been technically revised.

The main changes are as follows:

- introduction has been revised;
- a reference to ISO 21945 has been included;
- dimensions of the drum of the briquette tester have been revised to more consistent values;
- description of sieving procedures has been substituted by a reference to ISO 5370;
- the set of sieves for removing the broken particles has been substituted by a size with 5,6 mm diameter round holes;
- changing the sieves from metal wire sieves to sieves with round holes;
- editorial changes.

A list of all parts in the ISO 17831 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 17831-2:2025(en)**Introduction**

Compressed solid biomass fuel is usually assigned either as pellets or briquettes, of which pellets usually have a diameter less or equal to 25 mm while for briquettes the diameter is higher (see ISO 17225-1). The mechanical durability is an important parameter to estimate the tendency to create new fines by abrasion of pellets or briquettes, respectively, during handling.

To account for the different particle dimensions, it is necessary to specify different test apparatuses for determination of the mechanical durability of pellets and briquettes.

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

Part 2: Briquettes

1 Scope

This document specifies a method for determination of 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 are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 3310-2, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate*

ISO 5370, *Solid biofuels — Determination of fines content in pellets*

ISO 14780, *Solid biofuels — Sample preparation*

ISO 16559, *Solid biofuels — Vocabulary*

ISO 17225-1, *Solid biofuels — Fuel specifications and classes — Part 1: General requirements*

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

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

ISO 18135, *Solid Biofuels — Sampling*

ISO 21945, *Solid biofuels — Simplified sampling method for small scale applications*

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