

<b>STN</b>	<b>Tuhé biopalivá Stanovenie dĺžky a priemeru peliet (ISO 17829: 2025)</b>	<b>STN EN ISO 17829</b>  65 7422
------------	--	--

Solid biofuels - Determination of length and diameter of pellets (ISO 17829:2025)

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. 12/25

Obsahuje: EN ISO 17829:2025, ISO 17829:2025

Oznámením tejto normy sa ruší

STN EN ISO 17829 (65 7422) z mája 2016

**141560**

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026

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 17829

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2025

ICS 27.190; 75.160.40

Supersedes EN ISO 17829:2015

English Version

## Solid biofuels - Determination of length and diameter of pellets (ISO 17829:2025)

Biocombustibles solides - Détermination de la longueur et du diamètre des granulés (ISO 17829:2025)

Biogene Festbrennstoffe - Bestimmung der Länge und des Durchmessers von Pellets (ISO 17829:2025)

This European Standard was approved by CEN on 12 September 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN ISO 17829:2025 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 17829:2025) 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 March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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 17829:2015.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## **Endorsement notice**

The text of ISO 17829:2025 has been approved by CEN as EN ISO 17829:2025 without any modification.



# International Standard

**ISO 17829**

## **Solid biofuels — Determination of length and diameter of pellets**

*Biocombustibles solides — Détermination de la longueur et du  
diamètre des granulés*

**Second edition  
2025-09**

## ISO 17829:2025(en)



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

**ISO 17829:2025(en)****Contents**

Page

<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>vi</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Principle</b>	<b>2</b>
<b>5 Apparatus</b>	<b>2</b>
<b>6 Sample preparation</b>	<b>4</b>
6.1 General	4
6.2 Preparation requirements for pellet diameter	4
6.3 Preparation requirements for pellet length and pellet length fractions	4
<b>7 Procedure</b>	<b>4</b>
7.1 Determination of the parameters to be analysed	4
7.2 Determination of the pellet diameter class	5
7.3 Measuring the length of an individual pellet	5
7.3.1 General	5
7.3.2 Option A: Measuring the length of an individual pellet with a measuring block (5.2)	5
7.3.3 Option B: Measuring the length of an individual pellet with a calliper	6
7.4 Determination of the number of pellets above a maximum length	6
7.5 Determination of the share of pellets > 40 mm and the length of the longest pellet	6
7.6 Determination of the share of pellets of any other specified length, including pellets < 10 mm	7
7.7 Determination of the average length of pellets	7
<b>8 Calculations</b>	<b>7</b>
8.1 Pellet diameter class	7
8.2 Share of a specified fraction of pellets	7
8.2.1 General	7
8.2.2 Share of fractions including coarse pellet fines	8
8.2.3 Share of pellets > 40 mm	8
8.3 Average pellet length	9
<b>9 Performance characteristics</b>	<b>9</b>
<b>10 Test report</b>	<b>9</b>
<b>Annex A (informative) Devices for the determination of the length of pellets with a diameter of 8 mm or above</b>	<b>11</b>
<b>Annex B (informative) Comparative studies for determination of the pellet length</b>	<b>13</b>
<b>Annex C (informative) Example of a construction plan for a measuring block</b>	<b>15</b>
<b>Bibliography</b>	<b>18</b>

**ISO 17829:2025(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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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 17829:2015), which has been technically revised.

The main changes are as follows:

- extended scope which now includes the determination of specified pellet length fractions;
- description of a procedure to determine fractions of specified length including particles < 10 mm;
- added definition of pellet length;
- modified drawings for measuring pellet length;
- changed sizes of the test portions for the determination of the pellet length and fractions of specific length including pellets > 40 mm;
- changed procedures for measuring pellet length with two options: using a device for measuring the pellet length or a calliper;
- added measurement and reporting of the length of the longest pellet if pellets over 40 mm are found
- added informative annex with a device for measuring the length of pellets with other diameters than 6 mm;
- added informative annex with comparing data for the determination of pellet length with different methods
- added informative annex with an example of a building plan for a measuring block
- updated references;



**ISO 17829:2025(en)**

— modified drawings of pellet length to avoid potential ambiguity.

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](http://www.iso.org/members.html).

**ISO 17829:2025(en)****Introduction**

Pellets with a length and diameter outside the specification can cause problems with transportation in screw conveyors, silo outlets, and burner feeding systems. ISO 17225-1, ISO 17225-2, ISO 17225-6, and ISO 17225-8 stipulate the dimensions of pellets. The average pellet length and the amount of pellets of specific size fractions can influence the bulk density and the combustion behaviour.

This document describes procedures for determining the diameter class according to ISO 17225-2 as well as the length and diameter of pellets and the shares of specified pellet length fractions.

# Solid biofuels — Determination of length and diameter of pellets

## 1 Scope

This document specifies the methods for determination of the diameter and length of pellets. Concerning the pellet length, methods for the determination of fractions of specified lengths, such as pellets > 40 mm and particles < 10 mm and for determination of the average length are included.

## 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 17225-2, *Solid biofuels — Fuel specifications and classes — Part 2: Graded wood pellets*

ISO 17225-6, *Solid biofuels — Fuel specifications and classes — Part 6: Graded non-woody pellets*

ISO 17225-8, *Solid biofuels — Fuel specifications and classes — Part 8: Graded thermally treated and densified biomass fuels for commercial and industrial use*

ISO 18135, *Solid Biofuels — Sampling*

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**