



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

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

**ISO 17829**

**Second edition  
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<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>

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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 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;

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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.