



ISO 17831-1

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

**Part 1:
Pellets**

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

Partie 1: Granulés

**Second edition
2025-03**

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This second edition cancels and replaces the first edition (ISO 17831-1:2015), which has been technically revised.

The main changes are as follows:

- the introduction has been revised;
- a reference to ISO 21945 has been included;
- the description of the sample preparation has been revised to provide more practical guidance for the preparation of test portions;
- the description of sieving procedures has been substituted by a reference to ISO 5370.

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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 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.