



SLOVENSKI STANDARD SIST EN ISO 18847:2016

01-december-2016

Nadomešča:
SIST EN 15150:2011

Trdna biogoriva - Določevanje gostote delcev peletov in briketov (ISO 18847:2016)

Solid biofuels - Determination of particle density of pellets and briquettes (ISO 18847:2016)

Biogene Festbrennstoffe - Bestimmung der Partikeldichte von Pellets und Briketts (ISO 18847:2016)

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Biocombustibles solides - Détermination de la masse volumique unitaire des granulés et des briquettes (ISO 18847:2016)

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Ta slovenski standard je istoveten z: EN ISO 18847:2016

ICS:

| | | |
|-----------|--|---|
| 17.060 | Merjenje prostornine, mase, gostote, viskoznosti | Measurement of volume, mass, density, viscosity |
| 75.160.40 | Biogoriva | Biofuels |

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EUROPEAN STANDARD

EN ISO 18847

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2016

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Supersedes EN 15150:2011

English Version

Solid biofuels - Determination of particle density of pellets and briquettes (ISO 18847:2016)

Biocombustibles solides - Détermination de la masse
volumique unitaire des granulés et des briquettes (ISO
18847:2016)

Biogene Festbrennstoffe - Bestimmung der
Partikeldichte von Pellets und Briketts (ISO
18847:2016)

This European Standard was approved by CEN on 18 August 2016.

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 18847:2016) has been prepared by Technical Committee ISO/TC 238 “Solid biofuels” in collaboration with Technical Committee CEN/TC 335 “Solid biofuels” 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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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INTERNATIONAL
STANDARD

ISO
18847

First edition
2016-09-01

**Solid biofuels — Determination
of particle density of pellets and
briquettes**

*Biocombustibles solides — Détermination de la masse volumique
unitaire des granulés et des briquettes*

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ISO 18847:2016(E)

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 documents 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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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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

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Introduction

Particle density is a fuel parameter of pellets and briquettes which is often considered when describing the degree of compaction of the raw material used. Particle density can be highly specific for the respective type or species of biomass and thus, it also characterizes the material's general ability to be compacted. High particle density is often associated with high resistance to abrasion or low susceptibility towards fracturing during handling and storage. A high particle density also generally leads to reduced storage volume demands and to a lower filling level in combustion chamber at constant fuel mass flow. Particle density can also affect the heat transfer rate within the fuel and thus, it can have an impact on fuel ignition and on the dynamics of gasification.

Apart from the buoyancy method which is described in this International Standard as reference method, larger particles (briquettes) are sometimes easier tested by simple stereometric means. For internal laboratory practices, such a procedure is also presented in [Annex A](#). For small particles (pellets), this procedure is not recommended.

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