ISO 17225-1:2021 (E)

Solid biofuels — Fuel specifications and classes — Part 1: General requirements

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Symbols and abbreviated terms

5 Principle

6 Classification of origin and sources of solid biofuels

- 6.1 General
- 6.2 Woody biomass
- 6.2.1 Forest, plantation and other virgin wood
- 6.2.2 By-products and residues from wood processing industry
- 6.2.3 Used wood
- 6.2.4 Blends and mixtures
- 6.3 Herbaceous biomass
- 6.3.1 Herbaceous biomass from agriculture and horticulture
- 6.3.2 By-products and residues from food and herbaceous processing industry
- 6.3.3 Blends and mixtures
- 6.4 Fruit biomass
- 6.4.1 Orchard and horticulture fruit
- 6.4.2 By-products and residues from food and fruit processing industry
- 6.4.3 Blends and mixtures
- 6.5 Aquatic biomass
- 6.6 Biomass blends and mixtures

7 Specification of solid biofuels based on traded forms and properties

- 7.1 Traded forms of solid biofuels
- 7.2 Specification of properties of solid biofuels

Annex A (informative) Illustrations of typical forms of wood fuels and examples of particles sizes for wood chips and hog fuel

- A.1 Visually classifying wood fuels based on a typical particle size1 1 Source: Jan Erik Mattsson, Swedish University of Agricultural Science, Department of Agricultural Engineering, PO Box 66, SE-23066, Alnarp, Sweden.
- A.2 Visual differentiation between wood chips and hog fuel2 2 Source: Jan Erik Mattsson, Swedish University of Agricultural Science, Department of Agricultural Engineering, PO Box 66, SE-23066, Alnarp, Sweden.
- A.3 Examples of particle size distribution for wood chips and hog fuel

Annex B (informative) Typical values of solid biomass fuels

Annex C (informative) Examples of possible causes for deviant levels for different properties and of consequences of handling and treatments for the properties of biomass

Annex D (informative) Calculation of the net calorific value at different bases and energy density as received

D.1 The net calorific value of dry basis
D.2 The net calorific value as received
D.3 Energy density as received

Annex E (informative) Comparison of moisture content as received and dry basis

Page count: 63