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Bamboo charcoal —

Part 3: Purification applications

Charbon de bambou —

Partie 3: Applications pour purification

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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.

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This document is prepared by Technical Committee ISO/TC 296, *Bamboo and Rattan*.

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Introduction

Bamboo charcoal (BC) is an eco-friendly biomass product with porous structure, which is generally used to absorb toxic indoor gases, such as formaldehyde and various volatile organic compounds (VOCs). Bamboo charcoal has good adsorption quality and abundant sources of raw materials. Bamboo charcoal for purification applications also comes with a great market potential both in industrial and domestic applications.

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Bamboo charcoal —

Part 3:
Purification applications

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1 Scope

This document specifies the requirements and test methods of bamboo charcoal for air-purification applications.

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 16000-3, *Indoor air — Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air — Active sampling method*

ISO 16000-6, *Indoor air — Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS or MS-FID*

ISO 18122, *Solid biofuels — Determination of ash content*

ISO 18123, *Solid biofuels — Determination of the content of volatile matter*

ISO 18134-3, *Solid biofuels — Determination of moisture content — Oven dry method — Part 3: Moisture in general analysis sample*

ISO 18135, *Solid biofuels — Sampling*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
bamboo charcoal for air purification
BCAP
bamboo charcoal used to remove unwanted constituents in the air

3.2
bamboo charcoal
BC
black solid porous product made of carbonized bamboo

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