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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

LY/T 1929-2010

Test methods on basic physical and chemical properties of bamboo charcoal

竹炭基本物理化学性能试验方法

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces LY/T 1929-2010 "Test methods for basic physical and chemical properties of bamboo charcoal" and LY/T 3203-2020 "Test methods for basic physical and chemical properties of bamboo charcoal" Compared with LY/T 1929-2010 and LY/T 3203-2020, except for structural adjustments and editorial changes, in addition, the main technical changes are as follows.

--- Changed the terms and definitions 3.1 and 3.2 (see Chapter 3, Chapter 3 of LY/T 1929-2010);

--- Changed LY/T 1929-2010 4.1 Determination of density [changed the original LY/T 1929-2010 "density" to "surface Apparent density" and the test method was modified (see 4.1.3)];

--- Added particle density, tap density and corresponding test methods (see 3.1.1, 3.1.2);

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--- Changed the determination methods of resistivity and refining degree (see 4.7.2, 4.8);

--- Added the determination method of infrared emissivity (see 4.10).

1 Scope

This document describes the density, moisture content, ash content, volatile matter content, fixed carbon content, pH, resistivity, degree of refining, calorific value of bamboo charcoal.

and infrared emissivity test methods.

This document is applicable to fuel, air purification, household daily necessities, humidity control and preservation, water purification, toiletries, food, electromagnetic shielding and new energy Bamboo charcoal for materials and other purposes.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 1033.1-2008 Plastics - Determination of density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method GB/T 1636-2008 Plastics Determination of apparent density of materials that can flow out of a specified funnel GB/T 6682-2008 Specifications and test methods for water used in analytical laboratories GB/T 21354-2008 General method for determination of tap density of powder products LY/T 2483-2015 Terminology of bamboo charcoal products

3 Terms and definitions

The terms and definitions defined in LY/T 2483-2015 and the following apply to this document.

Bamboo charcoal powder Bamboo charcoal that has been crushed or ground to a particle size less than or equal to 1 mm.

Small pieces and crushed bamboo charcoal, bamboo charcoal with particle size greater than 1mm.

4.1.1.1 Method Summary

For irregular bamboo charcoal particles, according to Archimedes principle, a solid density meter (composed of an electronic balance, density software, density accessories, etc.) is used.

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The density of bamboo charcoal is measured by a combination of an instrument and a charcoal granule. The larger the size of the charcoal, the more it can be broken up before measurement. The charcoal in the form of a cylinder or sheet can also be measured.

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