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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 23203.1-2013

Replacing GB/T 23203.1-2008

**Cigarettes -- Determination of water in smoke condensates --
Part 1: Gas-chromatographic method**

卷烟 总粒相物中水分的测定 第1部分：气相色谱法

(English Translation)

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Foreword

GB/T 23203 "Cigarettes - Determination of water in" is divided into two parts.

--- Part 1. gas chromatography;

--- Part 2. Karl Fischer method.

This is Part 1 GB/T 23203 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 23203.1-2008 "Cigarettes determination of water - Part 1. gas chromatography", and GB/T 23203.1-2008 main technical changes compared as follows.

--- Gas Chromatography cigarette total particulate matter in the water increases the detection capillary columns.

This section uses redrafted Law Amendment uses ISO 10362-1:1999 Determination of "cigarette total particulate matter in the water - Part 1. Gas Phase chromatography "(in English), and this part of ISO 10362-1:1999, compared with more adjustment in the structure, listed in Appendix B of this section and ISO 10362-1. reg number control list 1999, this part of ISO 10362-1:1999 as compared to the presence of technical differences, these differences Terms have been involved in a single vertical line through the blank space in the outside margin was identified in Appendix C gives the corresponding technical differences its list of reasons.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part by the State Tobacco Monopoly Bureau.

This part of the National Standardization Technical Committee on Tobacco (SAC/TC144) centralized.

This section is drafted. Hongyun Honghe Tobacco (Group) Co., Ltd., China National Tobacco Quality Supervision and Inspection Center, the quality of tobacco in Yunnan Supervision and Inspection Station.

Introduction

This section is directed to the GB/T 19609 obtained in total particulate matter of cigarettes. The criteria involved are as follows.

GB/T 16450, GB/T 16447, GB/T 19609, GB/T 5606.1, GB/T 23355 and GB/T 23203.2.

Appendix A provides information on which can be simultaneously measured by gas chromatography total particulate matter of cigarette nicotine, specifically in

GB/T 23355 are described in detail.

See References.

Determination of total particulate matter of cigarette moisture Part 1. Gas Chromatography

1 Scope

GB/T 23203 provisions of this part of the gas chromatographic method cigarette smoke total particulate matter in the water.

This section applies to the determination of total particulate matter of water in standard and nonstandard suction obtained by cigarette smoke.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat of the basic methods of reproduction (GB/T 6379.2-2004, ISO 5725-2:1994, IDT) Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 19609 Cigarettes - Determination of total particulate matter and tar (GB/T 19609-2004 using a routine analytical smoking machine, ISO 4387:2000, MOD) Principle 3 the collected mainstream smoke total particulate matter dissolved in the extraction agent containing the internal standard, the extract was measured by gas chromatography moisture content Amount, calculate the total particulate matter in

moisture content.

4 Reagents

Use analytical grade reagents.

4.1

The carrier gas

Nitrogen or helium.

4.2 Isopropanol

Moisture content of not more than 1.0mg/mL.

4.3 Internal standard

Ethanol $\geq 99\%$.

4.4 Standards

Distilled or deionized water.

4.5 Extractant

The amount of internal standard (4.3) was dissolved in isopropanol (4.2), the concentration of the internal standard is generally 5mL/L. If the extraction agent storage temperature