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YC

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

YC/T 349-2010

**Cigarettes. Determination of carbon monoxide in the vapour
phase of cigarette sidestream smoke
(English Translation)**

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Foreword

Accordance with the standards GB/T 1.1-2009. Drafting Rules "Standardization Guide Part 1 standard structure and preparation of" given.

This revised standard adopts CORESTA recommended method No. 55 "cigarette sidestream smoke of carbon monoxide in the gas phase was measured with a fishtail Conventional analysis cover collecting device with linear smoking machine method "(in English).

Taking into account China's national conditions, the existence of this standard and CORESTA recommended method No. 55 compared to a small technical differences related technical difference Iso been incorporated into the body, and they are involved in terms of the margin of a single vertical line identification.

For ease of use, to CORESTA recommended method No. 55 made the following editorial changes.

- Preface delete the recommended method of CORESTA No. 55;
- Delete references No. 55 CORESTA recommended method;
- Remove CORESTA recommended method No. 55 line determination section;
- Annex No. 55 CORESTA recommended method of "pumping scheme" incorporated into Appendix A for reference use;
- Increased the preamble;
- Added Appendix C "of the Standards and Control No. 55 CORESTA recommended method." 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 standard was proposed by the State Tobacco Monopoly Bureau.

This standard by the National Standardization Technical Committee on Tobacco Cigarette Technical Committee (SAC/TC144/SC1) centralized.

This standard was drafted. National Tobacco Quality Supervision and Inspection Center, Jiangsu Tobacco Industry Co., Ltd., Fujian tobacco industry.

1 Scope

This standard specifies the method for determination of cigarette sidestream smoke of carbon monoxide in the gas phase.

This standard applies to cigarette sidestream smoke of carbon monoxide in the gas phase measurement.

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 16447 Tobacco and tobacco products conditioning and testing atmosphere GB/T 16450 routine analytical smoking machine Definitions and standard conditions GB/T 19609 cigarettes by conventional analytical determination of total particulate matter and tar smoking machine Determination of GB/T 23356-2009 carbon monoxide in cigarette smoke in non-scattering infrared method Determination YC/T 185 sidestream smoke cigarette tar and nicotine

3 Terms and Definitions

The following terms and definitions apply to this document.

Cigarette sidestream smoke vapor vapourphaseofcigarettesidestream Under the conditions prescribed by the standard part of sidestream smoke Cambridge filter sheet.

Principle 4

Press YC/T 185 pumping cigarette, collecting cigarette sidestream smoke vapor with a calibrated non-scattering infrared carbon monoxide analyzer, meter Calculated per cigarette sidestream smoke amount of carbon monoxide in the gas phase.

5 Instruments

Common laboratory equipment and items specified below.

5.1

tail cover, glass material, design and size See Appendix B in Figure B.1.

5.2

routine analytical smoking machine, in line with GB/T 16450 requirements, but does not adopt provisions relating to cigarettes ambient wind speed control. change After loading the cover can be fitted fishtail, bottom of each channel in the cover mounting a horizontal plate. The horizontal tail cover plate can cover the entire lower portion of the opening Minutes and the minimum length of 120mm, minimum width of 50mm, see Appendix B in Figure B.2.

5.3

non-scattering infrared analyzer to measure the gas and carbon monoxide gas, should be selected and calibrated.

Should be preferred operating range 0 to 2% (volume fraction) of carbon monoxide analyzer. Under constant temperature and pressure conditions, the accuracy of the analyzer should reach 1% of full scale, linearity should reach 1% of full scale repeatability should reach 0.2% of full scale. To 10% (volume fraction) of carbon dioxide in response to