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YC

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

YC/T 185-2004

**Cigarettes. Determination of nicotine and nicotine-free dry
particulate matter in sidesrteam smoke**
(English Translation)

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Foreword

This standard is modified using the CORESTA No. 54 recommended method for the determination of lateral flow using conventional analytical linear smoking machines and fishtail covers.

Tar and nicotine in flue gas (English version).

This standard was redrafted in accordance with CORESTA Recommendation No. 54.

Considering China's national conditions, this standard has a small number of technical differences compared with the recommended method of CORESTA No. 54.

Differences have been incorporated into the text and are identified by vertical single lines in the margins of the terms they refer to. These technicalities are given in Appendix D.

A list of differences and their causes is for reference.

For ease of use, the following editorial changes have been made to the CORESTA Recommendation No. 54.

- Remove the preface to the recommended method of CORESTA No. 54;
- Remove references to CORESTA Recommendation No. 54;
- Incorporate the Annex "Suction Scheme" of CORESTA Recommendation No. 54 into Appendix C for reference;
- Added Appendix D "Comparison of this standard with the recommended method of CORESTA No. 54".

Appendix A, Appendix B, Appendix C and Appendix D of this standard are informative annexes.

This standard was proposed by the State Tobacco Monopoly Bureau.

This standard is under the jurisdiction of the National Tobacco Standardization Technical

Committee (TC144).

This standard was drafted. Changsha Cigarette Factory Technology Center.

1 Scope

This standard specifies the method for determination of tar and nicotine in sidestream flue gas. This standard specifies the suction parameters of GB/T 16450 (pumping) Suction capacity, suction duration and pumping frequency) and butt length, but also for other suction parameters.

This standard is applicable to the determination of total particulate matter in cigarette sidestream flue gas and the subsequent determination of nicotine and tar. This method may not be straight it is used for the determination of other sidestream smoke components.

2 Normative references

The terms in the following documents become the terms of this standard by reference to this standard. All dated references, followed by all Modifications (not including errata content) or revisions do not apply to this standard, however, parties to agreements based on this standard are encouraged to study is it possible to use the latest version of these files? For undated references, the latest edition applies to this standard.

GB/T 5606.1 Cigarette Part 1. Sampling GB/T 16447 Atmospheric environment for the regulation and testing of tobacco and tobacco products (GB/T 16447-2004, ISO 3402:1999, IDT) GB/T 16450 Smoking machine definition and standard conditions for routine analysis (GB/T 16450-2004, ISO 3308:2000, MOD) GB/T 19609 cigarettes used for routine analysis of smoking machines to determine total particulate matter and tar (GB/T 19609-2004, ISO 4387.

2000, MOD)

YC/T 28.5 Determination of physical properties of cigarettes - Part 5 YC/T 34 Tobacco and tobacco products - Determination of total alkaloids - photometric method (YC/T 34-1996, eqv ISO 2881:1992) YC/T 36 Determination of total alkaloids in total granules YC/T 156 Determination of nicotine in total particulate matter - Gas chromatography (YC/T 156-2001, idt ISO 10315:2000) YC/T 157 Determination of moisture in total grain of cigarettes - Gas chromatography (YC/T 157-2001, idt ISO 10362-1.

1999)

YC/T 165 Determination of tobacco moisture Karl Fischer method (YC/T 165-2003, ISO 6488-1:1997, MOD)

3 Terms and definitions

The following terms and definitions apply to this standard.

Sidestream flue gas initial condensate, trapped on a sidestream flue gas trap and sidestream flue gas condensed on the inner wall of the fishtail cover, in milligrams Said.

Sidestream flue gas to nicotine dry particulate phase, nicotine-free dry sidestream flue gas condensate, total particulate matter captured by sidestream flue gas trap Subtract the moisture and nicotine from it and add the tar condensed on the inner wall of the fishtail cover, estimated in 8.7, expressed in milligrams.

The sum of the nicotine condensed on the inner wall of the fishtail cover, trapped on the sidestream smoke trap and collected in the absorption bottle, expressed in milligrams.

4 Principle

4.1

Take samples and adjust the cigarettes.