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

GB/T 22838.16-2009

**Determination of physical characteristics for cigarettes and filter rods --
Part 16: Cigarettes -- Determination of loss of tobacco from the ends --
Method using a rotating cylindrical cage
(English Translation)**

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Foreword

GB/T 22838 "cigarettes and filter rods - Determination of physical properties" is divided into 18 parts.

- Part 1. cigarette packaging and labeling;
- Part 2. Photoelectric length method;
- Part 3. circumferential laser method;
- Part 4. quality of cigarettes;
- Part 5. Draw resistance of cigarettes and filter rods pressure drop;
- Part 6. hardness;
- Part 7. Cigarettes dust rate;
- Part 8. moisture content;
- Part 9. Cigarettes short;
- Part 10. population explosion;
- Part 11. Cigarettes extinguish;
- Part 12. Cigarettes appearance;
- Part 13. Filter Rod roundness;
- Part 14. filter rod appearance;
- Part 15. Cigarettes - Determination of ventilation - Definitions and measurement principles;
- Part 16. Cigarettes - Determination of loss of tobacco from the ends of the rotating cage method;

--- Part 17. Determination of tobacco cigarette ends dropped vibration method;

--- Part 18. Cigarettes - Determination of loss of tobacco from the ends of the rotating box method.

This section GB/T 22838 Part 16.

The partial modification using ISO 3550-1:1997 "Determination of loss of tobacco from cigarette ends - Part 1. Rotating cage Law" (in English).

Taking into account the development and application of measurement techniques Cigarette computer processing technology, employing ISO 3550-1:1997 when this part made some modify. About the technical differences have been incorporated into the body and they are involved in terms of the margin of a single vertical line identification. Appendix D We are given a list of these technical differences and the reasons for the reference.

For ease of use and references to ISO 3550-1:1997 This section also made the following editorial changes.

--- The "ISO 3550-1:1997 to the present part" to "GB/T 22838 in this section";

--- This part of the formula are numbered.

Appendix A of this section is normative appendix, Appendix B, Appendix C and Appendix D is an informative annex.

This part by the State Tobacco Monopoly Bureau.

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

This section drafted by. China Tobacco Standardization Research Center, Chinese Academy of Sciences, Anhui Institute of Optics and Fine Mechanics, National Tobacco Quality Supervision and Inspection Center.

1 Scope

This section GB/T 22838 specifies the use of rotating cage measuring tobacco cigarette ends dropped methods.

This section applies to the determination of the processing site, the package front and rear ends of the cigarette tribe wire.

2 Normative references

The following documents contain provisions which, through reference GB/T 22838 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this

section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 5606.1 cigarette - Part 1. Sampling GB/T 16447 Tobacco and tobacco products for conditioning and testing atmospheres (GB/T 16447-2004, ISO 3402:1999, IDT)
Determination of GB/T 22838.3 cigarettes and filters physical characteristics - Part 3. circumferential laser method Determination of GB/T 22838.8 cigarettes and filters physical characteristics - Part 8. moisture Principle 3 A certain number of cigarettes into a sample cross section elliptical cage, the cage of parallel rods constituting a small interval. After testing Cheng, the cage rotating about its horizontal central axis and roll cigarettes are in a cage. Determination of the amount of exposed tobacco cigarette ends from falling.

The test conditions and the shape and size of the cage, and the pitch diameter of the shaft, the rotational speed of the cage, and the number of rotations of each test cigarette by the the number of cigarettes each test given diameter about.

First measurement sample falling tobacco mass m_1 L. According to the physical dimensions of the quality and testing of cigarettes to determine the amount of each doff exposed end and the exposed end of each unit area doff amount.

4.1 Adjustment tank

You should be able to regulate the atmosphere in accordance with GB/T 16447 requirements of.

4.2 Cigarette end tribal wire tester

Cigarette end tribal wire tester shall meet the following requirements.

Rotating cage a) tester consists of a number of stainless steel rod structure, cage oval cross-section. Adjacent pole spacing should be less than the measured volume the diameter of the smoke, but wide enough to allow the testing process by falling tobacco. Positioning and spacing of the rods in Appendix A;

b) end face of the cage oval center with bearings, so that the cage body to maintain the level, and can rotate about its horizontal central axis;

c) In order to allow more than one of the same sample or different samples of test sample simultaneously, along the length direction of the rotation of the cage One or more spacers to form a plurality of test cells;

d) for each test unit in addition to the fixed face, the activity should be fitted with a baffle, by adjusting the position of the flapper, can make the single the effective length of the element can be adjusted to the length of the test cigarettes, matches;