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

GB/T 22838.2-2009

**Determination of physical characteristics for cigarettes and
filter rods - Part 2: Length - Photoelectricity method**

卷烟和滤棒物理性能的测定 第2部分：长度 光电法

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Foreword

GB/T 22838 "Determination of physical characteristics for cigarettes and filter rods" is divided into 18 parts. - Part 1. Cigarettes packaging and mark; - Part 2. Length - Photoelectricity method; - Part 3. Circumference - Laser method; - Part 4. Cigarettes weight; - Part 5. Cigarettes draw resistance and filter rods pressure drop; - Part 6. Hardness; - Part 7. Cigarettes dust content; - Part 8. Moisture; - Part 9. Cigarettes loose end; - Part 10. Open seam; - Part 11. Cigarettes extinguish; - Part 12. Cigarettes appearance; - Part 13. Filter rods roundness; - Part 14. Filter rods roundness; - Part 15. Cigarettes - Determination of ventilation - Definitions and measurement principles; - Part 16. Cigarettes - Determination of loss of tobacco from the ends - Method using a rotating cylindrical; - Part 17. Cigarettes - Determination of loss of tobacco from the ends - Method using a vibro-bench; - Part 18. Cigarettes - Determination of loss of tobacco from the ends - Method using a rotating box. This is part 2 of GB/T 22838. Annex A of this part is informative. This part was proposed by the State Tobacco Monopoly Bureau. Determination of physical characteristics for cigarettes and filter rods - Part 2. Length - Photoelectricity method

1 Scope

GB/T 22838.2-2009 is the Chinese national standard on determination of physical characteristics for cigarettes and filter rods - part 2: length - photoelectricity method, in the field of agriculture. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 3 April 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in

force since 1 May 2009. Classification: ICS 65.160, CCS X87. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This part of GB/T 22838 specifies the determination methods for cigarettes and filter rods length. This part applies to cigarettes and filter rods.

2 Normative References

The provisions in following documents become the provisions of this part through reference in this this part of

GB/T 22838. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 5605-2002 Tobacco and tobacco products, acetate fiber filter rods

GB/T 5606.1 Cigarette - Part 1. Sampling

GB 5606.3-2005 Cigarette - Part 3. Technical requirements for packing, making, storage and transport

GB/T 15270-2001 Tobacco and tobacco products - Polypropylene tow filter rod

GB/T 16447 Tobacco and tobacco products - Atmosphere for conditioning and testing (GB/T 16447-2004, ISO 3402.1999, IDT)

3 Principle of Measurement

Use a parallel beam to conduct projection or scanning to cigarettes and filter ends, so as to form an optical signal, which is received by photoelectric receiving device AND processed by data processing system; then give out the length-value of cigarettes and filter rods.

NOTE. Projection method can also be used to determine the length of cigarettes and filter rod, operation procedures.

6.3 Based on the specifications of sample, SELECT standard filter rod of corresponding length. CONDUCT calibration for the standard length of instrument.

6.4 PLACE cigarette or filter rod in the measuring position, so that the parallel- light can irradiate to the ends of cigarette or filter rod. CONDUCT the projection or scanning to the ends of cigarette or filter rod.

6.5 Based on photoelectric receiving device and data processing system, READ out the

length of cigarette or filter rod.

6.6 REPEAT steps 6.4 ~ 6.5. TEST totally 30 specimens.

7 Result Expression

EXPRESS the measurement results in millimeter, accurate to 0.1mm.

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