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

YC/T 547.5-2017

**Specification of technical check for the special measuring
instrument of tobacco industry--Part 5: The cigarette and filter
rod hardness instrument**

(English Translation)

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Foreword

YC/T 547 "Specifications for the Technical Audit of Measurement Instruments for the Tobacco Industry" includes, but is not limited to.

- Part 1. Basic requirements and working procedures;
- Part 2. Cigarette suction resistance and filter rod pressure drop detection equipment;
- Part 3. Cigarette and filter rod length detection equipment;
- Part 4. Cigarette and filter rod circumference testing equipment;
- Part 5. Cigarette and filter rod hardness testing equipment;
- Part 6. Cigarette ventilation rate testing equipment;
- Part 7. Filling value test equipment for cut tobacco or stem cuts.

New sections can be added as needed.

This section is Part 5 of YC/T 547.

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

1 Scope

This part of YC/T 547 specifies the technical examination (technical examination) of cigarettes and filter rod hardness testing equipment for special measuring instruments in the tobacco industry.

The technical requirements on which the data review and test verification review are based.

This section applies to the tobacco industry and special measurement instruments cigarette and filter rod hardness testing equipment technical audit work.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. For undated references, the latest version (including all amendments) applies to this document.

YC/T 544-2016 General Specifications for Cigarette and Filter Rod Hardness Testing Equipment
YC/T 547.1-2016 Specification for technical audit of measuring instruments for the tobacco industry Part 1. Basic requirements and working procedures JJG (Tobacco) 01-2012 Verification Procedures for Comprehensive Test Benches for Physical Properties of Cigarettes and Filter Rods

3 Working procedures

The technical audit of the cigarette and filter rod hardness testing equipment is carried out according to the working procedure described in Chapter 3 of YC/T 547.1-2016.

4 Technical Documentation Review

4.1

Enterprises applying for technical auditing shall provide the relevant materials to prove that the company meets the application conditions in accordance with the requirements of 2.4 in YC/T 547.1-2016.

(Technical data for measuring instruments given in YC/T 547.1-2016) and measuring instruments, including technical data should include the following.

- a) Descriptive data of product measurement principle;
- b) instructions for use of the product;
- c) the probe structure of the product;
- d) Product description information on the shape and size of the indenter;
- e) the baffle structure diagram of the product;
- f) Test reports on technical indicators such as product pre-pressure, full pressure, maximum allowable displacement error, displacement range, resolution, etc.;
- g) Product description information on preloading time, full pressure time, and pressure rate setting;
- h) Explanatory information on the force sensors used in the product;
- i) Test report of product standard hardness rods.

4.2

The description of the measurement principle of the product should be able to prove that when the sample is in the test state of the device, the sample is radially subjected to a Constant pressure, measured to calculate the hardness of the sample.

4.3

The probe structure of the product shall demonstrate that the probe meets the requirements of 4.3 of YC/T 544-2016.

4.4

Product description on the shape and size of the indenter The data should demonstrate that the indenter meets the requirements of 4.3.1 of YC/T 544-2016.

4.5

The baffle structure of the product shall demonstrate that the baffle meets the requirements of 4.3.2 of YC/T 544-2016.