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FZ

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

FZ/T 40006-2018

Replacing FZ/T 40006-2011

Testing method for oil content of silk

蚕丝含油率试验方法 清晰版

(English Translation)

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Foreword

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

This standard replaces FZ/T 40006-2011 "Test method for oil content of silkworm cocoon silk thread", this standard is related to FZ/T 40006-2011 the main technical content changes are as follows.

- Adjusted the standard name and scope of application (see Chapter 1, Chapter 1 of the 2011 edition);
- Adjusted the description of the test principle (see Chapter 3, Chapter 3 of the 2011 edition);
- Increased sample requirements for silk cotton and silk spinning raw materials (see Chapters 5 and 6, Chapters 5 and 6 of the 2011 edition);
- Adjusted the partial structure of the standard (see Chapter 7, 6.2 and Chapter 7 of the 2011 edition);
- Adjusted the oil content calculation formula and its physical quantity representation (see 7.1, 2011 edition 6.2);
- Adjusted the test conditions for the third sample (see 7.2.2, 2011 edition 7.2).

This standard was proposed by the China National Textile and Apparel Council.

This standard is under the jurisdiction of the National Silk Standardization Technical Committee (SAC/TC401).

This standard was drafted. Zhejiang Silk Technology Co., Ltd., Suzhou University, Guangdong Entry-Exit Inspection and Quarantine Bureau, Hangzhou Quality and Technical

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1 Scope

This standard specifies the test method for the oil content of silk.

This standard is applicable to the determination of oil content of silk silk, silkworm silk, silk spinning and other raw materials.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 8170 Numerical Rounding Rules and Representation and Determination of Limit Values

3 Principle

The sample is extracted with diethyl ether in a Soxhlet extractor, and then the extraction solvent is evaporated to obtain the residual grease quality, thereby calculating the fat the percentage of dry mass to the dry mass of the sample.

4.1 Test equipment

- a) Soxhlet extractor. the distillation flask is 150mL;
- b) Analytical balance. the graduation value is 0.1 mg;
- c) a constant temperature water bath;
- d) Constant temperature oven. can maintain the temperature $(105 \pm 3) ^\circ \text{C}$;
- e) dryer. equipped with discolored silica gel;
- f) Weigh the bottle.

4.2 Reagents and materials

- a) diethyl ether (analytical grade);
- b) Qualitative filter paper.

WARNING - Use the solvents specified in this standard and read the MSDS.

5 Sampling

5.1

Specimens shall be of the same batch number, same specification and same variety.

5.2

If the sample is for silk silk or crepe spinning, take 2 samples and weigh (3.0 ± 0.3) g each; if the sample is silkworm silk, it will be from each Batch 2 take the wire barrel (twist), peel off the surface layer, take 2 samples, each (5.0 ± 0.5) g. The two samples taken were labeled with a serial number.

5.3

Each batch of silk cotton, silk spinning raw material or silkworm silk thread shall take one spare sample of the same quality (5.2).