

ICS 59.080.30

CCS W04



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

GB/T 18318.4-2009

**Textiles - Determination of bending behaviour - Part 4:
Cantilever beam**

纺织品 弯曲性能的测定 第4部分：悬臂法

Issued on: September 30, 2009

Implemented on: March 1, 2010

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 4 Instrument

Foreword

GB/T 18318 "Textiles - Determination of flexural properties" includes the following sections.

- Part 1. slant law;
- Part 2. Heart-shaped law;
- Part 3. Gurley method;
- Part 4. cantilever method;
- Part 5. pure bending method;
- Part 6. Saddle law. This section GB/T Part of 418,318. This part is proposed by the China Textile Industry Association. This part of the National Standardization Technical Committee on Basic Standards Subcommittee Textiles (SAC/TC209/SC1) centralized. This part mainly drafted by: National Textile Products Quality Supervision and Inspection Center, Textile Standard (Beijing) Co., Inspection and Certification Center. The main drafters of this section. Jianghui Xia, Wang Baojun, Gong Yingqiu. Textiles - Determination of bending properties Part 4. cantilever method

1 Scope

GB/T 18318.4-2009 is the Chinese national standard on textiles - determination of bending behaviour - part 4: cantilever beam, in the field of textile and leather technology. 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 30 September 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 March 2010. Classification: ICS 59.080.30, CCS W04. 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.

GB/T 18318 provisions of this part of the fabric of the moment method for the determination of a cantilever method. This section applies to all types of textile fabrics, especially for relatively stiff fabrics.

2 Normative references

The following documents contain provisions which, through reference

GB/T 18318 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 3820 Textiles and textile products - Determination of thickness (GB/T 3820-1997, ISO 5084.1996, IDT)

GB/T 6529 Textiles conditioning and testing using standard atmosphere (GB/T 6529-2008, ISO 139.2005, MOD) Principle

3 Connect one end of the sample holder in the clamp and the other end in contact with the curved plate, rotate the clamp in the external force, driven by a certain angle bend specimens Degrees, measured the angle corresponding to the moment.

4 Instrument

4.1 Test equipment diagram shown in Figure 1, includes the following components.

--- Clamps for holding the specimen, the bending angle indicating needle (pointer 1) connected to its shaft, can rotate around the rotational center O to 60 °/min of Clockwise rotation speed, you can also manually control the rotation of the button.

--- Heavy loading device comprising pendulum, plate bending, plate bending angle, load indicating needle (pointer 2) and a range can be freely combined Hammer, the device can about the point O almost frictionless flexible rotation.

--- Load indicator disc shows the loading apparatus when the rotation angle theta, the actual moment loading device corresponding to the total percentage of moments.

--- Bending angle plate with an accuracy of 1 °, relative to the clamp load display device rotation angle, different from the loading unit swings about the point O Angle.

4.2 fabric thickness meter accuracy of 0.01mm.