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

GB/T 14645-2014

Replacing GB/T 14645-1993

**Textiles-Burning behaviour-The 45°test determination of
damaged area and ignition times**

纺织品 燃烧性能 45°方向损毁面积和接焰次数的测定

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 14645-1993 "textile fabric flammability 45 ° damaged area and ignition times determination", and GB/T 14645-1993 compared to the main changes are as follows:

- Modify the scope of the original standard;
- Added "ignition timing" term;
- Modify the original standard combustion chamber of the diagram (see Figure 1);
- Modify the original schematic diagram of a standard sample folder (see Figure 2), increase the sample holder upper and lower two schematic diagram (see Figures 3 and 4);
- Increasing the B sample support law coil test diagram (see Figure 6), modified the original standard test stand (see Figure 5);
- Chapter 7, "Sample Preparation", an increase of yarn sampling instructions;
- 7.3 Method B The humidity is amended as first specimen mounted on the specimen supporting coil then the humidity treatment;
- Original standard test procedure
- 8.2.1 of the content separately as Chapter 8, "Test conditions";
- Basic retain the original standard test procedure in Chapter 9 of the main technical content of the re-test procedure is described;
- Added "calculated results" chapter. The standard proposed by China Textile Industry Association. The standard basis by the National Textile Standards Technical Committee of Standardization Technical Committee (SAC/TC209/SC1) centralized. This standard was drafted. Textile Standard (Beijing) Co., Inspection and Certification Center. The main drafters of this standard. Xu Road, Liu Feifei. This standard replaces the standards previously issued as follows:
- GB/T 14645-1993. Textiles - burning behavior 45 ° direction Determination damaged area and ignition times of

1 Scope

GB/T 14645-2014 is the Chinese national standard on textiles-burning behaviour-the 45° test determination of damaged area and ignition times, 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 2014 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 April 2015. 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.

This standard specifies two methods textiles 45 ° direction using surface ignition and combustion performance of the base ignition determination. A method of this standard applies to all types of fabrics and products (see A method of measuring point vain thick textile Appendix A); B method is suitable for Heat melted yarns and fabrics.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6529 Textiles Standard conditioning and testing atmosphere

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Continued burning time afterflametime Under test conditions, remove the ignition source material after sustained flaming combustion time. Expressed in seconds. [GB/T 3291.3-1997, the definition 2.145]

3.2 Smoldering time afterglowtime When under the test conditions specified, when flaming termination, or this is by flameless combustion, after removal of the source of fire, the material continued flameless combustion between. Expressed in seconds. [GB/T 3291.3-1997, the definition 2.146]

3.3 Damage length damagedlength Under the test conditions specified in the predetermined direction of the material damage to the maximum length of the part. Expressed in centimeters. [GB/T 3291.3-1997, the definition 2.157]

3.4 Damaged area damagedarea Under test conditions, the material damage caused by heat and the total area of \u200b\u200bnon-recovery. It comprises a material loss, shrinkage, softening, melting Melting, charring, combustion and pyrolysis and the like. In square centimeters. [GB/T 3291.3-1997, the definition 2.156]

3.5 Ignition timing flameapplicationtime Flame ignition source is applied to the time the specimen. [GB/T 8746-2009, Definition 3.1]

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