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

GB/T 12704.2-2009

**Textiles - Test method for water-vapour transmission of fabrics -
Part 2: Water method**

纺织品 织物透湿性试验方法 第2部分：蒸发法

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Foreword

GB/T 12704 "textile fabrics moisture permeability test method" consists of two parts.

--- Part 1. absorption method;

--- Part 2. evaporation method. This section GB/T Part of 212,704. Appendix A of this section is normative appendix, Appendix B is an informative annex. 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 section is drafted. Textile Standard (Beijing) Co., Ltd. Inspection and Certification Center, National Textile Products Supervision and Inspection Center. The main drafters of this section. Zhang. Textiles - Test methods for water vapor permeability Part 2. evaporation

1 Scope

GB/T 12704.2-2009 is the Chinese national standard on textiles - test method for water-vapour transmission of fabrics - part 2: water method, 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 19 March 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 January 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 12704 This part specifies the method for determining the moisture permeability of the fabric by evaporation. This section includes two methods. Method A positive Method B cup and inverted cup method. This section applies to all kinds of pieces of fabric thickness of less than 10mm in. Among them, Method B inverted cup method only applies to waterproof breathable fabric test.

2 Normative references

The following documents contain provisions which, through reference

GB/T 12704 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, eqv ISO 5084.1996)

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

GB/T 8170 repair value expressed about the rules and limit values and judgment

3 Terms and Definitions

The following terms and definitions apply GB/T 12704 in this section.

3.1 Vp T W Under both sides to maintain the sample temperature and humidity conditions specified, within the time prescribed by vertical vapor mass per unit area of the sample, in grams per square Hour meter $[g/(m^2 \cdot h)]$ 24 hours or grams per square meter $[g/(m^2 \cdot 24h)]$ as a unit.

3.2 W Vp P In the specimen on both sides to maintain a predetermined temperature and humidity conditions, the vapor pressure at the unit, within a specified time through unit area of specimen vertical Steam mass in grams Pascal hour $[g/(m^2 \cdot Pa \cdot h)]$ per square meter as a unit.

3.3 P Vp Under both sides to maintain the sample temperature and humidity conditions prescribed under the unit vapor pressure difference, the vertical unit time through unit thickness, per unit The vapor product sample mass, in grams per square centimeter centimeter Pascal seconds $[g \cdot cm/(cm^2 \cdot s \cdot Pa)]$ as a unit. Principle

4 Filled with distilled water to a certain temperature and sealed with breathable fabric sample cup is placed in a sealed environment specified temperature and humidity in accordance with certain Changes within permeable cup quality of the sample to calculate the moisture permeability, moisture permeability and permeability coefficient.