



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

GB/T 21655.1-2023

Replacing GB/T 21655.1-2008

**Textiles - Evaluation of absorption and quick-drying - Part 1:
Method for combination tests**

纺织品 吸湿速干性的评定 第1部分:单项组合试验法

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Table of Contents

Foreword	3
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Equipment, materials and reagents	7
6 Standard atmosphere for humidity control and testing	8
7 Sampling and specimen preparation	8
8 Test procedures	9
9 Evaluation and marks	12
10 Test report	13

Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document is Part 1 of GB/T 21655 "Textiles - Evaluation of absorption and quickdrying". The following parts of GB/T 21655 have been issued:

- Part 1: Method for combination tests;
- Part 2: Method for moisture management tests.

This document replaces GB/T 21655.1-2008 "Textiles - Evaluation of absorption and quick-drying - Part 1: Method for combination tests". Compared with GB/T 21655.1- 2008, in addition to the structural adjustments and editorial changes, the main technical changes in this document are as follows:

- Change "evaporation rate" to "drying rate" and change the definition (see 3.3 of this Edition);
 - Delete the term and definition of "evaporation time" (see 3.4 of Edition 2008);
 - Change the principle (see Chapter 4 of this Edition, Chapter 4 of Edition 2008);
 - Delete "capillary effect test device" (see 5.5 of Edition 2008). Change "burette" to "micropipette" (see 5.2 of this Edition, 5.3 of Edition 2008). Change "test platform" to "specimen holder" (see 5.6 of this Edition, 5.2 of Edition 2008). Add "dropper" (see 5.7 of this Edition);
 - Add the requirements for the standard atmospheric wind speed for the test (see 6.2 of this Edition);
 - Change the requirements for sample washing and drying procedures (see 7.2 of this Edition, 7.2 of Edition 2008). Add the sampling requirements (see 8.1.1, 8.2.1, 8.3.1 of this Edition, 8.1.1, 8.2.1, 8.3.1 of Edition 2008);
 - Change the test method for drip diffusion time (see 8.2 of this Edition, 8.2 of Edition 2008);
 - Change the test method for drying rate (see 8.3 of this Edition, see 8.3 of Edition 2008);
 - Delete the test of drying time (see 8.3.5 of Edition 2008);
 - Delete the moisture permeability (see 8.5 of Edition 2008);
- quick-drying performance. Add the requirements for marks (see Chapter 9 of this Edition, Chapter 9 of Edition 2008).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority shall not be held responsible for identifying any or all such patent rights.

This document was proposed by China Textile Industry Federation.

This document shall be under the jurisdiction of National Technical Committee on Textiles of Standardization Administration of China (SAC/TC 209).

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Versions of standard substituted by this document are:

- This is the first revision.

Introduction

For the evaluation of textile moisture absorption and quick-drying, there are mainly single-item combination test method and dynamic moisture transfer method, etc. For the convenience of use, it is divided into several parts according to different test principles and methods. GB/T 21655 "Textiles - Evaluation of absorption and quickdrying" is proposed to be composed of the following two parts.

- Part 1: Method for combination tests. The purpose is to provide a method for comprehensively evaluating the moisture absorption and quick-drying properties of textiles by measuring individual tests such as water absorption rate and drying rate.
- Part 2: Method for moisture management tests. The purpose is to provide a method for evaluating the moisture absorption and quick-drying and moisture absorption and perspiration properties of textiles by measuring the dynamic transfer state of liquid water after the test liquid is dropped into the specimen, and obtaining a series of performance