

ICS 59.080.30

CCS W 04



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

GB/T 24218.18-2014

**Textiles -- Test methods for nonwovens -- Part 18:
Determination of breaking strength and elongation (grab
method)**

Issued on: December 31, 2014

Implemented on: August 1, 2015

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

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

GB/T 24218 "textile non-woven fabric test method" is divided into the following sections.

- Part 1. Determination of mass per unit area;
 - Part 2. Determination of thickness;
 - Part 3. breaking strength and elongation measurement (strip method);
 - Part 5. Determination of resistance to mechanical penetration (ball burst method);
 - Part 6. Determination of absorption;
 - Part 8. Determination of liquid penetration time (simulated urine);
 - Part 10. Determination of Luoxu;
 - Part 11. Determination of overflow traffic;
 - Part 12. Determination of compression of the absorbent;
 - Part 13. Determination of liquid repeatedly through the time;
 - Part 14. Determination of wet coating material return amount;
 - Part 15. Determination of permeability;
 - Part 16. Determination of resistance to water (hydrostatic method);
 - Part 17. Determination of water permeability (spray impact method);
 - Part 18. breaking strength and elongation measurement (Grab method);
- Determination of resistance to saline properties (Mason flask method). Part --- 101.

GB/T 24218 "textile non-woven fabric test method" 1 to 18 portions corresponding to ISO 9073 series of standards, in addition to the standard

Registration, the other part of the correspondence with ISO 9073 as follows.

- GB/T 3917.3 "Textiles Tear properties of fabrics - Part 3. Determination of tear force of

trapezoidal shaped test specimens"

(GB/T 3917.3-2009, ISO 9073-4.1997, MOD)

--- GB/T 18318.1 "Textiles - Determination of flexural properties - Part 1. slant Law" (GB/T 18318.1-2009,

ISO 9073-7.1995, MOD)

--- GB/T 23329 "Textiles - Determination of fabric drape" (GB/T 23329-2009, ISO 9073-9.2008, MOD)

This section GB/T 24218 Part 18.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted Law Amendment uses ISO 9073-18.2007 "Textiles nonwovens Test methods - Part 18. break

Crack strength and elongation measurement (Grab method) "(in English).

Part of this ISO 9073-18.2007 main differences are as follows.

--- Deleted international standards foreword;

--- Normative references in the international standard to replace the corresponding national standards, to delete the reference to ISO 186;

--- Note 3.2 will be adjusted to the text content, the definition has been simplified;

--- Simplifies Chapter 4, will be part of the adjustment is an injection;

--- Increased 6.1 meter gauge length and tensile breaking strength display and recording of tolerance;

--- Modify the sampling method 7.1;

--- The Chapter 7 in the order of sampling, sample preparation and testing procedures of the terms have been adjusted, namely. the original 7.5,7.7,7.8 adjusted

7.1,7.2,7.3 original 7.1 ~ 7.4 was adjusted to 7.4 to 7.7, the original 7.6 adjusted to 7.8;

--- Increased results rounding rules;

--- Modify the contents of the test report.

This part is proposed by the China Textile Industry Association.

This part of the National Textile basic standards Standardization Technical Committee Technical Committee (SAC/TC209/SC1) centralized.

This section is drafted. Textile Standard (Beijing) Co., Inspection and Certification Center.

1 Scope

This section GB/T 24218 specifies the test methods for determination using the grab tensile properties of nonwoven Alhambra, including sample test wet.

This section applies to most types of non-woven fabric, it is not recommended for large elongation nonwoven fabric.

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

GB/T 19022-2003 Measurement management systems for measurement processes and measuring equipment (ISO 10012.2003, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Grab Test grabtest

Widthwise central portion of the specimen holder is clamped tensile tester.

Note. Under normal circumstances, the use of grab tensile strength determination when the sample width is 100mm. Holder with 25mm wide clamp the specimen surface at both ends of the middle ranks

Bit, so that the tensile force to the center of the width of the specimen.

3.2

Elongation elongation

Than the initial length of the sample and its increment due to the length of the force caused in percent.

3.3

Breaking strength breakingforce

The sample was stretched to breaking off during maximum force.

NOTE. In the most brittle material is usually strong at the broken off, ductile material typically occurs most vigorously before breaking off.

3.4

Tensile strength tensile strength

During stretching the stress test specimen.

NOTE. Measure the sample at the time of unbroken able to withstand the force.

Principle 4

The width of the specimen holder in the center of 100mm width 25mm of the clamp, to a predetermined tensile tester a tensile speed

Broken off until the sample, the sample record breaking strength and elongation at break.