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

GB/T 24218.1-2009

**Textiles -- Test methods for nonwovens -- Part 1: Determination
of mass per unit area**

纺织品 非织造布试验方法 第1部分：单位面积质量的测定

(English Translation)

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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.

This section GB/T 24218 Part 1.

GB/T 24218 "textile non-woven fabric test method" section above (except section 101) with the ISO 9073 series of standards Corresponding to the section.

And ISO 9073 Part 4, Part 7 and Part 9 national standards corresponding to the case as follows.

--- GB/T 3917.3 "Textiles Tear properties of fabrics - Part 3. Determination of tear force of trapezoidal shaped test specimens" (GB/T 3917.3-1997, eqvISO 9073-4. 1989);

--- GB/T 18318.1 "Textiles - Determination of flexural properties - Part 1. slant Law" (ISO 9073-7:1995, MOD);

--- GB/T 23329 "Textiles - Determination of fabric drape" (GB/T 23329-2009, ISO 9073-9:2008, MOD).

The partial modification using ISO 9073-1. measuring mass per unit area. "textile non-woven fabric test methods - Part 1 1989 set".

This section according to ISO 9073-1. 1989 redrafted with ISO 9073-1. 1989 main differences are as follows.

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

--- Modify the sampling method;

--- Deleted Chapter 9 test reports f) "humidity-used standard atmosphere." 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. Southern Textile Industry Science and Technology Test Center, Textile Industry Research Institute of Standardization.

1 Scope

This section GB/T 24218 specifies the test methods for non-woven fabric mass per unit area.

2 Normative references

The following documents contain provisions which, through reference in this Part of GB 24218, constitute provisions of this part. 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 4669 Textiles - Woven fabrics mass per unit length and mass per unit area measurement (GB/T 4669-2008, ISO 3801.

1977, MOD)

GB/T 6529 Textiles conditioning and testing using standard atmosphere (GB/T 6529-2008, ISO 139:2005, MOD) Principle 3 Determination of size and quality of the sample, the sample and calculate the mass per unit area in grams per square meter (g/m²).

4 Instrument

4.1

Sample clipper, choose from the following appliances.

4.1.1

CD sampler disc knife, cut out the area of \u200b\u200bthe sample is at least 50000mm².

4.1.2

square mold, with an area of \u200b\u200bat least 50000mm² (such as 250mm x 200mm), and with a cutter.

4.1.3

ruler, dividing the value of 1mm, and with a cutter.

4.2

Balances error in the measurement range of ± 0.1 mass%.

5 Sampling

By product standards or related parties negotiated sampling method.

Note 1: The consultation by interested parties, different kinds of non-woven fabric sample size is also different. Because many non-woven fabric of heterogeneity, the sample size Preferably not less than 4.1 in the size specified.

Note 2: The error should be noted that non-woven fabric sample arising may be greater than the experimental error.

Note 3: This sampling method to consider the unevenness of the sample (difference in all directions, mainly horizontal and vertical structure), therefore, the sampling method should be by the relevant parties Agreed and noted in the report.

Preparation of sample and humidity-6

6.1 Use a round cutter cut sampler (4.1.1), or use a square mold and a cutter (4.1.2) and cut at least three samples from the sample, each sample an area of \u200b\u200bat least 50000mm².

If the sample is not sufficient to take a sample cut a predetermined size, the maximum size possible and cut rectangular specimens, with a steel ruler (4.1.3) test the amount of the

sample area.

NOTE: Although not recommended, but the two sides can reach an agreement about the use of a smaller test area, this situation should be stated in the test report.

If you come to claim the coefficient of variation, the number of samples of at least five.