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

GB/T 24328.13-2025

**Tissue paper and tissue products - Part 13: Determination of
disintegration**

卫生纸及其制品 第13部分：可分散性的测定
(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 13 of GB/T 24328 "Toilet Paper and its Products". GB/T 24328 has already published the following parts.

- Part 1: Terminology Guidelines;
- Part 2: Determination of thickness, laminate thickness, apparent laminate density and bulk;
- Part 3: Determination of tensile strength, elongation at maximum force, and tensile energy absorption;
- Part 4: Determination of wet tensile strength;
- Part 5: Quantitative Determination;
- Part 6: Determination of water absorption time and capacity using the basket immersion method;
- Part 7: Determination of Spherical Bursting Strength;
- Part 8: Measurement of Optical Properties. Brightness and Color Measurement D65/10° (Outdoor Daylight Conditions);
- Part 9: Determination of wet-bulb bursting strength;
- Part 10: Determination of tensile strength of perforated wire and calculation of perforation efficiency;
- Part 11: Measurement of Optical Properties - Measurement of Brightness and Color C/2°

(Indoor Daylight Conditions);

---Part 12: Determination of Optical Properties - Determination of Opacity - Diffuse Reflection Method;

---Part 13: Determination of dispersibility.

This document is modified to adopt ISO 12625-17:2021 "Toilet paper and its products - Part 17: Determination of dispersibility in water".

This document has undergone significant structural adjustments compared to ISO 12625-17:2021. A comparison of the structural numbering changes between the two documents is provided below.

See Appendix A for the table of contents.

The technical differences between this document and ISO 12625-17:2021, and the reasons therefor, are as follows.

- a) The scope has been changed (see Chapter 1) to comply with the drafting rules for national standardization documents in my country;
- b) Terms and definitions have been changed (see 3.1) to harmonize with existing standards;
- c) The test water was changed to tap water, and the normative reference to ISO 14487 (see 4.1.2) was removed to adapt to Chinese technology.
condition;
- d) The bottom view of the rotor (see 4.1.3.4) has been modified to reflect the actual situation;
- e) ISO 3310-2 (see 4.1.3.5) has been replaced with the normatively referenced GB/T 6003.2 to adapt to my country's technical conditions;
- f) Replace the drying tray with a weighing bottle (see 4.1.3.8) to adapt to my country's technical conditions;
- g) ISO 186 (see 4.1.4.1) has been replaced with the normatively referenced GB/T 450 to adapt to my country's technical conditions;
- h) ISO 187 has been replaced with the normatively referenced GB/T 10739 (see 4.1.4.2, 4.1.4.3) to adapt to my country's technical conditions;
- i) ISO 638-1 (see 4.1.5.1.2) has been replaced with the normatively referenced GB/T 462 to adapt to my country's technical conditions;
- j) Instructions for the shower head moving above the screen plate and spraying the product have been added (see 4.1.5.2.9) to improve the operability of the method;

- k) ISO 3310-1 (see 4.1.5.2.11) has been replaced with the normatively referenced GB/T 6003.1 to adapt to my country's technical conditions;
- l) The formula was modified (see 4.1.6) to suit my country's technological conditions;
- m) Method 2 (see 4.2) has been added to conform to the actual situation of dispersibility determination of toilet paper and its products in China;
- n) The content that should be included in the test report has been increased (see Chapter 5).

The following editorial changes have been made to this document.

- The standard title has been changed to "Toilet Paper and its Products - Part 13: Determination of Dispersibility" to harmonize with existing standards;
- The URLs for the ISO and IEC terminology databases have been removed;
- Notes in sections 6.5, 6.11, and Chapter 10 of ISO 12625-17:2021 have been removed;
- Annex B (informative) and Annex D (informative) of ISO 12625-17:2021 have been deleted.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Paper Industry (SAC/TC141).

Introduction

GB/T 24328 "Toilet Paper and its Products" will improve the quality level of toilet paper and its products in my country and provide a basis for the production of toilet paper and its products.

It serves as a guide and is planned to consist of 14 parts.

---Part 1: Terminology Guidelines. The purpose is to define the terms and definitions for toilet paper and its products.

---Part 2: Determination of thickness, laminate thickness, apparent laminate density, and bulk. The aim is to specify the measurement at 2.0 kPa.

Methods for determining the thickness and laminate thickness of toilet paper and its products under high-pressure conditions, and calculation of apparent laminate density and bulk.

method.

---Part 3: Determination of tensile strength, elongation at maximum force, and tensile energy absorption. The purpose is to specify the method for constant-rate tensile testing.

A method for determining the tensile strength, elongation at maximum force, and tensile energy absorption of toilet paper and its products using a tensile strength tester.

And the calculation methods for tensile index and tensile energy absorption index.

---Part 4: Determination of wet tensile strength. The purpose is to specify the method for determining the wet tensile strength of toilet paper and its products.

---Part 5: Determination of Quantitative Amount. The purpose is to specify the method for determining the quantitative amount of toilet paper and its products.

---Part 6: Determination of Absorption Time and Capacity using the Basket Immersion Method. The purpose is to specify the method for determining the absorbency of water using the basket immersion method.

Methods for measuring the water absorption time and water absorption capacity of paper and its products.

---Part 7: Determination of Bursting Sphericity. The purpose is to define the resistance of toilet paper and its products to mechanical penetration (bursting sphericity).

The determination method.

---Part 8: Measurement of Optical Properties - Brightness and Color Measurement D65/10° (Outdoor Daylight Conditions). The purpose is to specify...

A method for determining the brightness and color of toilet paper and its products under outdoor sunlight conditions.

---Part 9: Determination of wet-bulb burst strength. The purpose is to specify the resistance of toilet paper and its products to mechanical penetration after wetting (wet-bulb burst strength).

Methods for determining burst strength (bearing capacity).

---Part 10: Determination of Tensile Strength of Perforation Threads and Calculation of Perforation Efficiency. The purpose is to specify the perforation thread requirements for toilet paper and its products.

Methods for determining tensile strength and calculating drilling efficiency.

---Part 11: Measurement of Optical Properties - Luminosity and Color Measurement C/2° (Indoor Daylight Conditions). The purpose is to specify the optical properties to be measured under indoor conditions.

A method for determining the brightness and color of toilet paper and its products under indoor sunlight conditions.