

ICS 85.010
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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24328.6-2020

Replacing GB/T 24328.6-2009

**Tissue paper and tissue products - Part 6: Determination of
water-absorption time and water-absorption
capacity--Basket-immersion test method**

Issued on: July 21, 2020

Implemented on: February 1, 2021

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

GB/T 24328 "Toilet Paper and Its Products" is divided into the following 12 parts.

---Part 1.Terminology guidelines;

---Part 2.Determination of thickness, laminate thickness, apparent laminate tightness 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 water absorption capacity basket immersion method;

---Part 7.Determination of the burst resistance of the spherical shape;

---Part 8.Determination of optical properties, determination of brightness and color D65/10° (outdoor daylight conditions);

---Part 9.Determination of the burst resistance of the wet spherical shape;

---Part 10.Determination of the tensile strength of the punching line and calculation of the punching efficiency;

---Part 11.Determination of optical properties, determination of brightness and color C/2° (indoor daylight conditions);

--- Part 12.Determination of optical properties. Determination of opacity. Diffuse reflectance method.

This part is Part 6 of GB/T 24328.

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

This part replaces GB/T 24328.6-2009 "Toilet paper and its products Part 6. Water absorption time and water absorption capacity (basket immersion

Compared with GB/T 24328.6-2009, the main technical changes are as follows.

---The angle between the basket and the horizontal plane has been modified from 30° to (30+/-3)° (see 5.1.2, 7.1.2 in the 2009 edition);

---The temperature of the water during the test is increased, and the water temperature is required to remain stable during the test (see 5.4);

---Deleted the density requirement of stainless steel wire for cylindrical baskets (see 7.1.5 of the 2009 edition);

---The automatic test method is deleted, and the manual and automatic test methods are no longer distinguished (see Chapter 8 of the 2009 edition);

---Modified the data retention digits of the calculation results, from three decimal places to two decimal places (see Chapter 7, 2009 edition

Chapter 7);

---Adjust the precision to Appendix B, and add Appendix A.

This part uses the redrafting law to amend and adopt ISO 12625-8:2010 "Toilet paper and its products Part 8. Water absorption time and water absorption

Ability (basket immersion method)".

Compared with ISO 12625-8:2010, this part has many structural adjustments. Appendix A lists this part and ISO 12625-8.

The 2010 chapter number comparison list.

The technical differences between this part and ISO 12625-8:2010 and the reasons are as follows.

---Regarding normative reference documents, this section has made adjustments with technical differences to adapt to my country's technical conditions and adjustments

It is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

* Replace ISO 186 with GB/T 450 which is modified to adopt international standards;

* Replace ISO 187 with GB/T 10739, which is equivalent to the international standard;

* Replace ISO 14487 with GB/T 22903, which is modified to adopt international standards.

---The scope of application has been modified according to the actual applicable objects of the standard.

---Adjusted the test water requirements, changed from deionized water to test standard water that meets the requirements of GB/T 22903 to meet my country's

Test conditions.

--- Add "and prepare samples and test under this atmospheric condition" in the article of temperature and humidity treatment, so as to make the test conditions more clear.

This section has made the following editorial changes.

---Modified the standard name;

--- The precision-related content is unifiedly arranged in Appendix B, in coordination with other parts.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

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

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

Drafting organizations of this section. China Light (Jinjiang) Hygienic Products Research Co., Ltd., China Pulp and Paper Research Institute Co., Ltd. (National Paper Quality

Quantity Supervision and Inspection Center), Standardization Professional Committee of China Paper Association.

1 Scope

This part of GB/T 24328 specifies the method for measuring the water absorption time and water absorption capacity of toilet paper and its products by the basket immersion method.

This section applies to toilet paper and its products.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

The collection of GB/T 450 paper and paperboard samples and the determination of the longitudinal and transverse directions, front and back sides of the samples (GB/T 450-2008, ISO 186.

2002, MOD)

GB/T 10739 Standard atmospheric conditions for handling and testing of paper, paperboard and pulp samples (GB/T 10739-2002, eqvISO 187.

1990)

GB/T 22903 Standard water for pulp physical test (GB/T 22903-2008, ISO 14487.1997, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Water-absorption time

The time required for the sample to be fully wetted from the beginning of immersion in water.

3.2

Water-absorption capacity

The mass of water absorbed per unit mass of the sample under specified conditions.

4 Principle

Under specified conditions, place the sample in a cylindrical basket, and the cylindrical basket containing the sample is immersed in water under its own weight

In, the time required for the sample to be completely wetted is measured. After immersing for a certain period of time, drain the sample according to the specified conditions to determine the absorption of water by the sample

quality.

5.1.1 Water container

The water container should be large enough (total volume is at least 3L), and the cylindrical basket can be completely submerged in water when placed horizontally. Packed in water container