

ICS 85.080
CCS Y39



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

GB/T 27728.1-2024

Wet wipes and similar products - Part 1: General requirements

湿巾及类似用途产品 第1部分：通用要求

Issued on: September 29, 2024

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document was issued on 29 September 2024 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 October 2025.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

1 Scope

GB/T 27728.1-2024 sets the general requirements for wet wipes and similar products, a category China makes and consumes in enormous volume and one that has attracted regulatory attention on two fronts at once: the microbiological and chemical safety of a moist product held at room temperature and applied to skin, including babies' skin, and the environmental consequence of a nominally disposable wipe made from plastic fibre that does not disintegrate and blocks sewers. The standard sets the classification and the requirements: the substrate and the liquid, the physical requirements of size, mass and

liquid content and the wet strength, the pH, the preservative and the limits on the substances that must not be present, the microbiological limits and the preservative efficacy, the packaging and its integrity, and the labelling including the statements about disposal. It then gives the test methods, the inspection rules and the storage requirements. It takes effect on 1 October 2025.

4 Classification

4.1 Wet wipes are divided into human body wet wipes, pet wet wipes, object wet wipes according to the different users.

4.2 Wet wipes for human body are divided into baby wet wipes and adult wet wipes according to the different user groups. Wet wipes for human body are divided into hand and mouth wet wipes, skin cleaning wet wipes, toilet wet wipes, etc. according to the different wiping parts.

Note. Toilet wet wipes are also called wet toilet paper.

4.3 Wet wipes for objects are divided into kitchen wipes, sanitary wipes, mirror wipes, floor wipes, furniture wipes, and other object wet wipes according to different uses.

5 Requirements

5.1 General requirements for wet wipes

5.1.1 Raw materials

Toxic and harmful raw materials shall not be used for wet wipes.

5.1.2 Intrinsic quality

The general intrinsic quality of wet wipes shall comply with the provisions of Table 1.

5.1.3 Others

For wet wipes products that are nominally suitable for multiple users, user groups or purposes, they shall also meet the requirements of the corresponding products.

5.2 Special requirements for adult wet wipes

5.2.1 Raw materials

Adult wet wipes shall not use any recycled fibrous materials as raw materials. The liquid used in the production of adult wet wipes shall meet the requirements of Chapter 2 and Chapter 3 of the "Technical Specifications for Safety of Cosmetics" (2015 edition);

methylisothiazolinone and methylchloroisothiazolinone shall not be added.

5.2.2 Intrinsic quality

The intrinsic quality of adult wet wipes shall comply with the provisions of Table 2.

5.2.3 Hygiene indicators

The hygiene indicators of adult wet wipes shall comply with the provisions of GB 15979.

5.2.4 Appearance quality

The surface of adult wet wipes shall be clean and undamaged; it shall not have foreign matter and stains.

6 Test method

6.1 Length deviation, width deviation

Cut the outer packaging of wet wipes from the port; remove the outer packaging; take out the wet wipes continuously without deformation; place them flat on the glass plate naturally. Use a ruler to measure the length and width of the specimen. Each sample of the same specification shall be 6 pieces, accurate to 1 mm. Calculate the length or width deviation according to formula (1); the result is accurate to 0.1%.

6.3 Packaging sealing performance

It is measured according to Appendix A.

6.4 Flushability

It is measured according to Appendix B or GB/T 40181. Either of the two methods is acceptable. In arbitration, GB/T 40181 shall be followed. If the fiber content meets the requirements of 5.1.2 of this document, the aerobic biodegradation/degradation test and anaerobic biodegradation/degradation test in GB/T 40181 may not be evaluated.

6.5 Fiber content

It is measured in accordance with GB/T 4688.

6.6 Dust degree

It is measured in accordance with GB/T 1541.

6.7 Shortage of internal volume

Remove the outer packaging during measurement and count visually. Test 3 packages for each sample; express the result as the maximum shortage.

6.8 Raw materials

The liquid used in the production of adult wet wipes shall be measured in accordance with the method specified in the "Technical specifications for safety of cosmetics" (2015 edition).

6.9 Liquid content

Use tweezers to take one wet wipe each from the top, middle, bottom of a complete wet wipe package to form a specimen. If the sample contains less than 3 pieces in a single package, extract the actual number of pieces in a single package. Immediately weigh it using a balance with a graduation value of 0.01 g after sampling. Then rinse the specimen with distilled water or deionized water, until there is no foam. Place it in an oven at $(85 \pm 2) ^\circ\text{C}$. The specimen shall not touch the four walls of the oven. After drying for 4 hours, take it out and put it in a desiccator. After cooling to room temperature, weigh it again. Calculate the liquid content according to formula (2); the result is expressed in times.

6.10 Heavy metals (lead, arsenic, cadmium, mercury)

The determination is carried out according to 1.6 in Chapter 4 of the "Technical specifications for safety of cosmetics" (2015 edition). The sample is processed by microwave digestion. Sampling method. For multi-piece products, use tweezers to take a wet wipe from the middle layer of the sample; for single-piece products, directly sample. Cut the specimen into pieces and test.

6.11 Methanol, benzene, toluene, xylene

It is measured according to the headspace method in GB/T 36985-2018.

6.12 Migratable fluorescent substances

It is measured according to Appendix C.

6.13 pH value

It is measured according to the pH meter method in GB/T 1545-2008. Test solution