

ICS 59.040



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

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**Down and feather
(English Translation)**

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1 Scope

This document specifies the requirements, judgment rules, marking, packaging, transportation, and storage of down and feather, describes the corresponding test methods, provides product classifications for ease of technical specification, and defines relevant terms.

This document applies to the production, inspection, and sale of down and feather.

Fillings for down and feather products shall refer to this document, unless otherwise specified in relevant product standards.

This document does not apply to products blended with down, feather, and other fibers.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6529 Textiles - Standard atmospheres for conditioning and testing

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 10288 Test method for down and feather

GB/T 23322-2018 Textiles - Determination of surfactant - Alkylphenols and

Alkylphenol ethoxylates

GSB 16-2763 Photographic standard of down and feather

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1

down and feather

A general term for down and feather growing on the body surface of waterfowl, as well as related components or constituents such as down fiber and feather fiber derived therefrom.

NOTE 1: Those with a down content (3.8) greater than or equal to 50 % are referred to as "down", and those with a down content (3.8) less than 50 % are referred to as "feather".

NOTE 2: Common down and feather include goose down, goose feather, duck down, and duck feather.

3.2

pre-washed down and feather

Down and feather (3.1) shed from waterfowl, which have only undergone preliminary washing and drying and cannot be directly used as fillings for products.

NOTE 1: Pre-washed down and feather may contain quills and/or some residues (3.14).

NOTE 2: Quills refer to the wing feather and tail feather of waterfowl.

3.3

fine washed down and feather

Down and feather (3.1) that have been processed through pre-separation, fine washing, high-temperature drying and fine separation, and can be used as fillings for products.

3.4

virgin down and feather

Fined washed down and feather (3.3) that are processed from down and feather (3.1) collected during the slaughter of waterfowl such as geese and ducks or naturally shed from waterfowl, and used as fillings for products for the first time.

3.5

reclaimed down and feather

Down and feather (3.1) obtained by disassembling traceable used down and feather materials and removing residues from their down and feather fillings, which require further processing.

3.6

recycled down and feather moisture content

Percentage of the mass difference of the test specimen before and after drying relative to the mass before drying.

4 Product classification

4.1

According to the product form, it is divided into the following two categories.

- down;
- feather.

4.2

According to the product life cycle, it is divided into the following three categories.

- virgin down and feather;
- reclaimed down and feather;
- recycled down and feather.

4.3

According to the degree of product processing, it is divided into the following two categories.

- pre-washed down and feather;
- fine washed down and feather, including virgin down and feather and recycled down and feather.

5.1 Basic requirements

5.1.1

Down and feather used for product filling shall be fine washed down and feather.

Pre-washed down and feather and reclaimed down and feather shall not be used directly for product filling, nor shall they be mixed into fine washed down and feather for filling purposes.

5.1.2

Virgin down and feather shall not contain sewing threads, fabric yarns, synthetic fibers, or other fibers derived from dismantled used articles.

5.1.3 The contents of alkylphenols (AP) and alkylphenol ethoxylates (APnEO) in down

and feather shall comply with the provisions of Table 1. This item is not assessed for down and feather explicitly declared as recycled.

Pre-washed down and feather shall be judged according to 5.1 and 5.2.

Mandatory items for virgin down and feather shall be judged according to 5.1 and 5.3.1.

Recycled down and feather shall be judged according to 5.1 and 5.3.3.

8.1 Marking

Products shall be marked with their name (e.g., pre-washed down and feather, fine washed down and feather, reclaimed down and feather, recycled down and feather), category (e.g., goose down, goose feather, duck down, duck feather), specifications (nominal down content, complying with the provisions of Table 3), implemented standard number, and item number.

If necessary, the product color may be indicated (e.g., white goose down, grey goose down, white duck down, grey duck down, etc.).

Example 1. Fine washed down and feather (goose down, 90 % down content).

Example 2. Recycled down and feather (duck down, 70 % down content).

8.2 Packaging

Suitable packaging materials shall be used for machine-pressed or loose-pack packaging to prevent damage to the products during transportation and storage.

8.3 Transportation and storage

Transportation and storage of the products shall meet the following conditions.

- maintain cleanliness, well ventilation, and dryness; avoid mixing with flammable materials or items with strong odors;
- dedicated warehouses shall be disinfected regularly; pre-washed down and feather, virgin down and feather, reclaimed down and feather, recycled down and feather, and other auxiliary products shall be stored in separate warehouses or zones;
- different varieties and specifications shall be stacked separately.

Annex A (normative)

Test method for dust content