

Chinese Down and Feather Quilt Standard QB/T 1193-2023

data compiled and provided by IDFL Laboratory and Institute



The purpose of this document is to assist manufacturers, supplier, and/or buyers in meeting the standards specified by QB/T 1193-2023. It is specifically designed to help meet the various quality requirements for the following:

1. Meeting Down and Feather Requirements for QB/T 1193-2023
2. Meeting Fabric and Textile Requirements for QB/T 1193-2023
3. Meeting Finished Product Appearance and Labeling Requirements for QB/T 1193-2023

Prefix: About QB/T 1193-2023:

QB/T 1193-2023 is an amendment QB/T 1193-2012. This standard specifies the terms and definitions, requirements, test methods, inspection rules as well as the labelling, packing, transportation and storage of down & feather quilts. It is applicable to quilts made with various textile fabrics that are filled with down and feathers, or quilts containing down and feathers with other materials that are distributed in different layers or zones.

1. Meeting Down and Feather Requirements for QB/T 1193-2023:

Down and Feather components are tested using the GB/T 10288-2016 methods and evaluated according to GB/T 17685-2016 requirements (see chart 1).

Additional Details:

Content:

- Components must meet minimum requirements given by GB/T 17685-2016 (see chart 1).
- For products containing both down and feather and other materials, the mass percentage of down and feather should be at least 50% of the total filling weight and the down components must also meet minimum requirements given by GB/T 17685-2016 (see chart 1).

Goose or Duck Species:

- Goose down labeled as 80% or greater requires species testing **only** on down.
- Goose down labeled as less than 80% requires species testing for both down **and** feather.
- Unidentified down and feather are reclassified according to the known percentage ratio of duck and down. Goose products must contain a minimum of 85% Goose (see chart 1).

Fill Power:

- Fill Power is tested according to GB/T 10288-2016 steam method. Fill Power must meet minimum requirements given by GB/T 17685-2016 (see chart 1).

Chart 1: GB/T 17685-2016 Down and Feather Requirements

| | Claimed Down Cluster % | Down Cluster Tolerance % | Down & Feather Fiber % ≤ | Damaged Feather % ≤ | Landfowl % ≤ | Large Feather % (Goose ≥ 8cm Duck ≥ 7cm) ≤ | Quill Feather % ≤ | Residue % ≤ | Fill Power (cm) ≥ | |
|---------|------------------------|--------------------------|--------------------------|---------------------|--------------|--|-------------------|-------------|-------------------|-------|
| | | | | | | | | | Duck | Goose |
| Feather | 0 | -- | 5.0 | 5.0 | 5.0 | 10.0 | 0.0 | 3.0 | 7.0 | 7.5 |
| | 5 | -1.0 | 10.0 | 5.0 | 5.0 | 3.0 | | 2.0 | 7.5 | 8.5 |
| | 10 | -2.0 | 10.0 | 5.0 | 4.5 | 3.0 | | 1.5 | 8.5 | 9.5 |
| | 20 | -2.0 | 10.0 | 5.0 | 4.0 | 3.0 | | 1.5 | 9.0 | 10.0 |
| | 30 | -2.0 | 10.0 | 5.0 | 3.5 | 2.0 | | 1.5 | 9.5 | 10.5 |
| | 40 | -2.0 | 10.0 | 5.0 | 3.0 | 2.0 | | 1.5 | 10.5 | 11.5 |
| Down | 50 | -3.0 | 10.0 | 3.0 | 2.5 | 2.0 | | 1.2 | 11.5 | 12.5 |
| | 60 | -3.0 | 10.0 | 3.0 | 2.0 | 1.0 | | 1.2 | 12.5 | 13.5 |
| | 70 | -3.0 | 10.0 | 2.0 | 1.5 | 0.5 | | 1.2 | 13.5 | 14.5 |
| | 75 | -3.0 | 10.0 | 2.0 | 1.5 | 0.5 | | 1.2 | 14.0 | 15.0 |
| | 80 | -3.0 | 10.0 | 2.0 | 1.0 | 0.5 | | 1.2 | 14.5 | 15.5 |
| | 85 | -3.0 | 10.0 | 2.0 | 1.0 | 0.5 | | 1.0 | 15.5 | 16.5 |
| | 90 | -3.0 | 10.0 | 2.0 | 1.0 | 0.5 | | 1.0 | 16.0 | 17.0 |
| | 95 | -3.0 | 5.0 | 2.0 | 1.0 | 0.0 | 1.0 | 16.5 | 17.5 | |

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| Cleanliness Requirements | |
|--------------------------|-----------|
| Oxygen (mg/100g) | ≤ 5.6 |
| Turbidity (mm) | ≥ 500 |
| Fat & Oil % | ≤ 1.2 |
| Odor | Qualified |

| Net Filling Weight Requirements | |
|---|-------|
| Net Filling Weight (Deviance compared to the claimed value) | ≥ -5% |
| Mass percentage of Down and Feathers | ≥ 50% |

| Other Requirements | |
|--------------------|------------|
| NP+OP | < 10mg/kg |
| NP+OP+NnPEO+OnPEO | < 100mg/kg |
| pH | 5.5~8.0 |

Other material Requirements

Meet the requirement of GB 18383 and the related product standards. For fiber content, it should meet the requirement of GB/T 29862.

2. Meeting Fabric and Textile Requirements for QB/T 1193-2023:

Fabrics are required to meet the minimum requirements given below (Chart 2).

Chart 2: QB/T 1193-2023 Fabric Requirements

It should meet with the requirement of GB 18401 or GB 31701 (only for infant and children's product).

| Shell fabric and interior lining fabric Requirements | | Colorfastness Requirements | | |
|--|---|------------------------------------|----------------|--------------------------|
| Test Item | Requirement | Test Item | Category | Requirement |
| Fiber content (%) | Meet with the requirement of GB/T 29862 | Colorfastness to Washing with soap | Color Change | ≥3 |
| Dimensional stability (%) | ≤ ±5.0 | | Color Staining | ≥3 |
| Downproofness | ≤30 Particles | Colorfastness to Crocking | Dry | ≥3 (for Dark color: 2-3) |
| Air Permeability (mm/s) | Shell ≥ 5 Interior lining ≥ 3 | | Wet | ≥3 |
| Formaldehyde (mg/kg) | ≤ 300 | | | |
| pH | 4.0 – 9.0 | | | |
| AZO Dyes | Not Detected (Not allowed to use, detected limited value ≤ 20mg/kg) | | | |
| Odor | None | | | |

3. Meeting Finished Product Appearance and Labeling Requirements for QB/T 1193-2023:

Finished Products are required to meet the minimum requirements given below (Chart 3).

Chart 3: QB/T 1193-2023 Product Requirements

| Fabric and Textile Requirements | | Classification Requirements are based results (below): | |
|---------------------------------|--|--|---|
| Test Item | Requirement | Test Item | Requirement |
| Product Inspection | Product Accessories (zippers and buttons), Filling Distribution, Stitching Quality | Color Tone/Shade (grade) | ≥ 4 |
| | Dimensional ratio of specification and dimensions (%) | Skewing (%) | ≤ 3 |
| | | Damage/Needle Holes | Not Allowed |
| | | Stains/Spots | Max. 1 Small Spot for one side |
| | | Blemish Streaks | Max. 1 Small Spot for one side |
| | | Defect Lines | Max. 1 Small Spot for one side |
| | | Print/ Artwork Defects | Slight color transferring, staining, bleeding, but Not Allowed to affect general Appearance |
| | | Accessories (zippers and buttons) | Should be firm, smooth and beautiful and without spots and rusts; no accessed sharp point and sharp edge; the performance and texture of all sewing threads, cords/drawstrings, lining cloth, inserted lines, durable labels and hooks should be suitable to shell fabrics; zipper snaps well and functioning smoothly. |
| | | Others | No other defects that obviously affect the appearance. |

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LAW LABEL

Law Label is required to meet with GB 5296.4 & GB 18401 requirements. It should also meet with the requirement of GB 31701 for infants and children's products.

- List Product Type above fold on label on a prominent position and font size should not be smaller than (3.7±0.2) mm (No. 5).
- Product dimensions: Width (cm) x Length (cm)
- Washing type should be listed on the using construction.
- Fiber Content should comply with GB/T 29862.
- Filling type and the filling weight. For down and feather filling, the percentage of down cluster should be clearly indicated. The products with down cluster less than 5% shall be marked with "goose (duck) feather". For other filling materials that are filled in layers or sub-areas, the fiber content and the filling weight shall be clearly labeled.

Product Label should clearly indicate the following:

| Product Type | |
|--------------------------------|---|
| Down Quilt | Filled with the same specification of down as the only filling. |
| Feather Quilt | Filled with the same specification of Feather as the only filling. |
| Composite Down Quilt | Filled with two or more different specifications of down and feather or down and feather with other materials filled by layers or panel by panel. And the percentage of down (in mass) in the total filling is ≥50%. |
| Composite Feather Quilt | Filled with two or more different specifications of down and feather or down and feather with other materials filled by layers or panel by panel. And the percentage of feather (in mass) in the total filling is ≥50%. |

Examples of Law Label Formats:

Down Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Duck Down (50% Down)
Net Fill Weight: 130g

Feather Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Goose Feather (40% Down)
Net Fill Weight: 150g

Composite Down Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Upper Layer: Duck Down (80% Down)
Under Layer: Duck Feather (30% Down)
Net Fill Weight: Upper Layer 140g
Under Layer 60g

Composite Down Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Centre: Duck Down (80% Down)
Edge: 100% Lyocell
Net Fill Weight: Duck Down 140g
Lyocell 60g

Composite Feather Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Upper Layer: Duck Down (80% Down)
Under Layer: Duck Feather (30% Down)
Net Fill Weight: Upper Layer 100g
Under Layer 140g