

# QB/T 1194-2023

## Down and Feather Mattress Standard

Effective 01 Nov 2023 (IDFL Copyright)

The purpose of this document is to assist manufacturers, suppliers, and/or buyers in meeting the standards specified by QB/T 1194-2023. It is specifically designed to help meet the various quality requirements for the following:

1. Meeting Down and Feather Requirements for QB/T 1194-2023
2. Meeting Fabric and Textile Requirements for QB/T 1194-2023
3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1194-2023

### Prefix: About QB/T 1194-2023:

QB/T 1194-2023 is an amendment QB/T 1194-2012. This standard specifies the terms and definitions, requirements, test methods, inspection rules as well as the labelling, packing, transportation, and storage of down & feather mattresses. It is applicable to mattresses made with various textile fabrics that are filled with down and feathers, or mattresses containing down and feathers with other materials that are distributed in different layers or zones.

### 1. Meeting Down and Feather Requirements for QB/T 1194-2023:

Down and Feather components are tested using the GB/T 10288-2016 methods and evaluated according to GB/T 10288-2016 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).

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

Product Type	Claimed Down Cluster %	Down Cluster Tolerance %	Down Fiber + 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

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

Net Filling Weight Requirements	
Net Filling Weight	≥ -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

-----End of Chart 1-----

**Chart 2: 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.

-----End of Chart 2-----

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### 2. Meeting Fabric and Textile Requirements for QB/T 1194-2023:

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

#### Chart 3: QB/T 1194-2023 Fabric Requirements

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

Shell and interior lining fabric Requirements		
Test Items	Requirement	
Fiber content (%)	Meet with the requirement of GB/T 29862.	
Dimensional stability (%)	≤ ± 5.0	
Air Permeability (mm/s)	Shell	≥ 5
	Interior lining	≥ 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	
Colorfastness Requirements		
Test Item	Category	Requirement
Colorfastness to Washing with soap*	Color Change	≥ 3
	Color Staining	≥ 3
Colorfastness to Crocking	Dry	≥ 3 (for Dark color: 2-3)
	Wet	≥ 3

\* Only for such product which can be laundered.

-----End of Chart 3-----

### 3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1194-2023:

Finished Products are required to meet the minimum requirements given below (Chart 4).

#### Chart 4: QB/T 1194-2023 Product Requirements

Fabric and Textile Requirements	
Test Item	Requirement
Product Inspection	Product Accessories (zippers and buttons), Filling Distribution, Stitching Quality
Dimensional ratio of specification and dimensions (%)	-2.0 ~ +3.0
Color Tone/Shade (grade)	≥ 3-4
Skewing (%)	≤ 4.0
Damage/ Needle Holes	No Damage, Needle Holes must be smaller than 5 cm in length
Stains/ Spots	Max. 5 Small Spots for one side
Blemish Streaks / Defect Lines	Max. 2 Small spots for one side
Print/ Artwork Defects	Defects 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.

-----End of Chart 4-----

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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	
<b>Down Mattress</b>	Filled with the same specification of down as the only filling.
<b>Feather Mattress</b>	Filled with the same specification of Feather as the only filling.
<b>Composite Down Mattress</b>	1) 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. & 2) The percentage of down and Feather (in mass) in the total filling is ≥50%. & 3) The percentage of down (in mass) in the down and feather filling is ≥50%.
<b>Composite down and feather mattress</b>	1) Filled with two or more different specifications of down and feather or down and feather with other materials filled by layers or by area. & 2) The percentage of down and Feather (in mass) in the total filling is ≥50%. & 3) The percentage of down (in mass) in the total filling: no less than 5% and no more than 50%.
<b>Composite Feather Mattress</b>	1) Filled with two or more different specifications of down and feather or down and feather with other materials filled by layers or by area. & 2) The percentage of down and Feather (in mass) in the total filling is ≥50%. & 3) The percentage of down (in mass) in the down and feather filling: less than 5%.

### Examples of Law Label Formats:

#### Down Mattress

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

#### Feather Mattress

Fabric: 80% Cotton / 20% Polyester
Filling: Duck Feather (30% Down)
Net Fill Weight: 150g

#### Composite Down and Feather Mattress

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

Fabric: 80% Cotton / 20% Polyester
Filling: Upper Layer: Duck Down (80% Down)
Middle Layer: 100% Silica Gel
Under Layer: Duck Feather (30% Down)
Net Fill Weight: Upper Layer 100g
Middle Layer 50g
Under Layer 140g

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### Composite Down and Feather Mattress

Fabric: 80% Cotton / 20% Polyester

Filling: Upper Layer: Goose Down (80% Down)

Middle Layer: 100% Polyester

Under Layer: Goose Feather

Net Fill Weight: Upper Layer 100g

Middle Layer 50g

Under Layer 140g