



QB/T 1194-2012

Down and Feather Mattress Standard

Author: Jenson Sun/ Bryan Mortensen

Updated: Feb 2016 (IDFL Copyright)

The purpose of this document is to assist manufacturers, supplier, and/or buyers in meeting the standards specified by QB/T 1194-2012. It is specifically designed to help meet the various quality requirements for the following:

1. Meeting Down and Feather Requirements for QB/T 1194-2012
2. Meeting Fabric and Textile Requirements for QB/T 1194-2012
3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1194-2012

Prefix: About QB/T 1194-2012:

QB/T 1194-2012 is an amendment QB/T 1194-1991. 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 down and feather mattresses that are mainly filled with down and feathers and take various textile fabrics.

1. Meeting Down and Feather Requirements for QB/T 1194-2012:

Down and Feather components are tested using the GB/T 10288-2003 methods and evaluated according to QB/T 1194-2012 requirements (see chart 1).

Additional Details:

Content:

- Components must meet minimum requirements given by QB/T 1194-2012 (see chart 1).
- For products with blended materials, the 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 QB/T 1194-2012 (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).

Color Separation:

- Only products labelled **white** goose or **white** duck down will require color separation. These products must meet minimum requirements given by QB/T 1194-2012 (see chart 1).

Fill Power:

- Fill Power is tested according to QB/T steam method and measured in GB cylinder and plate. Fill Power must meet minimum requirements given by QB/T 1194-2012 (see chart 1).

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www.idfl.com

IDFL

Salt Lake City, Utah
info@idfl.com

IDFL EUROPE

Frauenfeld, Switzerland
europe@idfl.com

IDFL CHINA

Hanzhou, China
china@idfl.com

IDFL TAIWAN

Taipei, Taiwan
taiwan@idfl.com



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Chart 1: QB/T 1194-2012 Down and Feather Requirements

Down Cluster %	Down Cluster Tolerance %	Down Fiber % ≤	Feather Fiber% ≤	Landfowl % ≤	Damaged Feather % ≤	Colored Down and Feather * % ≤	Quill Feather % ≤	Residue % ≤	Fill Power (cm) ≥	Duck Down & Feather % ≤
Goose Down and Feather										
Feather	--	5.0	5.0	5.0	5.0	2.0	10.0	3.0	8.0	15
5	-2.0	10.0	10.0	5.0	5.0	1.5	3.0	2.0	10.0	15
10	-3.0	10.0	10.0	4.5	5.0	1.5	3.0	1.5	11.0	15
20	-3.0	10.0	10.0	4.0	5.0	1.5	3.0	1.5	12.0	15
30	-3.0	10.0	10.0	3.5	5.0	1.5	2.0	1.5	13.0	15
40	-3.0	10.0	10.0	3.0	5.0	1.5	2.0	1.5	14.0	15
50	-5.0	10.0	10.0	2.5	3.0	1.0	2.0	1.2	15.5	15
60	-5.0	10.0	10.0	2.0	3.0	1.0	1.0	1.2	17.0	15
70	-5.0	10.0	10.0	1.5	2.0	1.0	0.5	1.2	18.0	15
75	-5.0	10.0	10.0	1.5	2.0	1.0	0.5	1.2	18.5	15
80	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.2	19.0	15
85	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.0	19.5	15
90	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.0	20.0	15
95	-5.0	5.0	5.0	1.0	2.0	1.0	0.5	1.0	20.5	15
Duck Down and Feather										
Feather	--	5.0	5.0	5.0	5.0	2.0	10.0	3.0	7.5	N/A
5	-2.0	10.0	10.0	5.0	5.0	1.5	3.0	2.0	9.0	
10	-3.0	10.0	10.0	4.5	5.0	1.5	3.0	1.5	10.0	
20	-3.0	10.0	10.0	4.0	5.0	1.5	3.0	1.5	11.0	
30	-3.0	10.0	10.0	3.5	5.0	1.5	2.0	1.5	12.0	
40	-3.0	10.0	10.0	3.0	5.0	1.5	2.0	1.5	13.0	
50	-5.0	10.0	10.0	2.5	3.0	1.0	2.0	1.2	14.0	
60	-5.0	10.0	10.0	2.0	3.0	1.0	1.0	1.2	15.5	
70	-5.0	10.0	10.0	1.5	2.0	1.0	0.5	1.2	17.0	
75	-5.0	10.0	10.0	1.5	2.0	1.0	0.5	1.2	17.5	
80	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.2	18.0	
85	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.0	18.5	
90	-5.0	10.0	10.0	1.0	2.0	1.0	0.5	1.0	19.0	
95	-5.0	5.0	5.0	1.0	2.0	1.0	0.5	1.0	19.5	

Cleanliness Requirements	
Oxygen (mg/100g)	≤ 10.0
Turbidity (mm)	≥ 450
Fat & Oil %	≤ 1.2
Moisture %	≤ 13
Odor	≤ 2 (unless product is specifically designed)

Net Filling Weight Requirements	
Net Filling Weight	≥ -5 %

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



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2. Meeting Fabric and Textile Requirements for QB/T 1194-2012:

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

Chart 2: QB/T 1194-2012 Down and Feather Requirements

Fabric and Textile Requirements		
Test Item	Requirement	
Downproofness	≤ 20 Particles	
Air Permeability (mm/s)	≥ 5	
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 (below):		
Test Item	Category	Requirement
Colorfastness to Perspiration	Color Change	3
	Color Staining	3
Colorfastness to Crocking	Dry	2/3
	Wet	3

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

3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1194-2012:

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

Chart 3: QB/T 1194-2012 Down and Feather 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 (%)	-1.5 ~ +3.0
Color Tone/Shade (grade)	≥ 3/4
Skewing (%)	≤ 4
Damage/ Needle Holes	No Damage, Needle Holes must be smaller than 5 cm long
Stains/ Spots	Max. 5 small spots
Blemish Streaks / Defect Lines	Max. 2 Large (Obvious) Spot
Print/ Artwork Defects	Defects Not Allowed to affect Total Appearance

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

Law Label

- Law Label is required to meet GB 5296.4 requirements.
 - List Product Type above fold on label and font size should not be smaller than any other text.
 - Filling type and percentage should be specified and mixed fillings clearly outlined.



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- Product dimensions: Width (cm) x Length (cm)
- Fiber Content should comply with FZ/T01053.

Product Label should clearly indicate the following:

Product Type	
Down Quilt	100% down and feathers, \geq 50% down content
Feather Quilt	100% down and feathers, $<$ 50% down content
Mixed Down Quilt	Down and feather blend with other polyester fibers, down and feather portion $>$ 50%, down content \geq 50%
Mixed Feather Quilt	Down and feather blend with other polyester fibers, down and feather portion $>$ 50%, down content $<$ 50%
Composite Down Quilt	Down and feathers and other fibers are filled into separate chambers, down and feather portion $>$ 50%, down content \geq 50%
Composite Feather Quilt	Down & feathers and other fibers are filled into separate chambers, down and feather portion $>$ 50%, down content $<$ 50%

Examples of Law Label Formats:

Down Mattress

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

Feather Mattress

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

Mixed Down and Feather Mattress

Fabric: 80% Cotton / 20% Polyester
 Filling: 70% Grey Duck Down (50% Down)
 30% Lyocell
 Net Fill Weight: Grey Duck Down 140g
 Lyocell 60g

Composite Down and Feather Mattress

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

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



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IDFL

Salt Lake City, Utah
info@idfl.com

IDFL EUROPE

Frauenfeld, Switzerland
europe@idfl.com

IDFL CHINA

Hangzhou, China
china@idfl.com

IDFL TAIWAN

Taipei, Taiwan
taiwan@idfl.com

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