



QB/T 1193-2012

Down and Feather Quilt 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 1193-2012. It is specifically designed to help meet the various quality requirements for the following:

1. Meeting Down and Feather Requirements for QB/T 1193-2012
2. Meeting Fabric and Textile Requirements for QB/T 1193-2012
3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1193-2012

Prefix: About QB/T 1193-2012:

QB/T 1193-2012 is an amendment QB/T 1193-1991. This standard specifies the terms and definitions, requirements, test methods, inspection rules as well as the labelling, packing, transportation and storage of down & feather quilts. It is applicable to down and feather quilts that are mainly filled with down and feathers and take various textile fabrics.

Classification: Products are classified into three categories based on testing results: Premier, First Class, and Qualified. These various requirements are outlined in the testing requirements below.

1. Meeting Down and Feather Requirements for QB/T 1193-2012:

Down and Feather components are tested using the GB/T 10288-2003 methods and evaluated according to QB/T 1193-2012 requirements (see chart 1).

Additional Details:

Content:

- Components must meet minimum requirements given by QB/T 1193-2012 (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 1193-2012 (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 1193-2012 (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 1193-2012 (see chart 1). Classifications are based upon Fill Power results (below):

QB/T 1193-2012 Down and Feather Classification Requirements

Premier	Fill Power must be 20% greater than Fill Power requirement (Chart 1)
First Class	Fill Power must be 10% greater than Fill Power requirement (Chart 1)
Qualified	Fill Power must meet Fill Power requirement (Chart 1)

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Page 1
18 January 2017



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Chart 1: QB/T 1193-2012 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

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 1193-2012:

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

Chart 2: QB/T 1193-2012 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		
Classification Requirements are based on Colorfastness Results (below):			
Test Item	Category	Classification	Requirement
Colorfastness to Perspiration	Color Change	Premium	4
		First Class	3/4
		Qualified	3
	Color Staining	Premium	4
		First Class	3/4
		Qualified	3
Colorfastness to Crocking	Dry	Premium	4
		First Class	3/4
		Qualified	3
	Wet	Premium	3/4
		First Class	3
		Qualified	2/3

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

3. Meeting Finished Product Appearance and Labelling Requirements for QB/T 1193-2012:

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

Chart 3: QB/T 1193-2012 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 ~ +2.5	
Classification Requirements are based on results (below):		
Color Tone/Shade (grade)	Premium	≥ 4/5
	First Class	≥ 4
	Qualified	≥ 3/4
Skewing (%)	Premium	≤ 2
	First Class	≤ 3
	Qualified	≤ 4
Damage/ Needle Holes	Premium	Not Allowed
	First Class	Not Allowed
	Qualified	No Damage, Needle Holes must be smaller than 5 cm long



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Stains/ Spots	Premium	Not Allowed
	First Class	Max. 1 small spot
	Qualified	Max. 3 small spots
Blemish Streaks / Defect Lines	Premium	Defects Not Allowed
	First Class	Max. 1 Small Spot
	Qualified	Max. 1 Large (Obvious) Spot
Print/ Artwork Defects	Premium	Not Allowed
	First Class	Defects Not Allowed to affect Total Appearance
	Qualified	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.
 - 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, ≥ 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 ≥ 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 ≥ 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 Quilt

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

Feather Quilt

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

Composite Down Quilt

Fabric: 80% Cotton / 20% Polyester
Filling: Upper Layer: 100% Grey Duck Down (80% Down)
 Under Layer: 100% Grey Duck Feather (30% Down)
Net Fill Weight: Upper Layer 140g
 Under Layer 60g



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Mixed Down Quilt

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

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

Mixed Feather Quilt

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

Composite Feather Quilt

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