

SAFEGUARDS

SGS CONSUMER TESTING SERVICES

SOFTLINES

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NEW REVISED CHINA PRODUCT STANDARD FOR DOWN GARMENTS– GB/T 14272-2011

The General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China & Standardization Administration of the People's Republic of China has launched a new revised product standard for down garments – GB/T 14272-2011.¹ This revised standard replaces GB/T 14272-2002. The new revised product standard was implemented on 1st February, 2012.

Scope:

This standard specifies the terms and definitions for down garments, requirements, test methods, inspection rules for classification and labeling, packaging, transportation and storage. This standard applies to woven textile fabrics as the main fabric and down as the main filler in the production of a variety of clothing.

Main contents of the revised standard GB/T 14272-2011 compared with old version:

- Modified the wording in scope of the standard, the scope area is same
- Normative references were added
- Added "Terms and Definitions" in Chapter 3
- Contents of instructions in 2011 version, specify the instruction should follow GB 5296.4 and GB 18401, should label the filling material name, down composition and filling weight
- Modified the specification requirements for filling materials
- Modified the tolerance of the defect on the appearance of defects
- Added new requirements for azo dyes, color fastness to water, down-proof properties of fabrics & children and infant clothing safety requirements
- Removed the requirement on seam strength at back rise
- Modified the criteria of the defect assessment of the content of quality defects on finished product, and the required one-piece appearance.
- Revised the "Test methods for seam slippage" in Appendix D
- Removed the "Test sampling location for seam strength at back rise" in Appendix B in 2012



¹ [Announcement from Standardization Administration of the People's Republic of China](#)

- Added the "Physical and chemical requirements for feather and down" in Appendix A, "Test methods for feather and down" in Appendix C, "Method of testing the down-proof properties of fabrics – Rubbing test" in Appendix E and "The micro-structure and characteristic for goose and duck plush" in Appendix F.



TABLE 1. THE PHYSICAL AND CHEMICAL PROPERTIES FOR DOWN GARMENT ACCORDING TO GB/T 14272-2011

ITEM			QUALIFICATION		
			HIGH-CLASS GRADE	FIRST GRADE	QUALIFIED GRADE
Fiber content / %			According to FZ/T 01053		
Formaldehyde content / mg/kg			According to GB 18401		
pH value			According to GB 18401		
Azo dye / mg/kg			According to GB 18401		
Shell – Color fastness / grade $\geq$	Washing	Color change	4	3-4	3-4
		Staining	4	3-4	3
	Water	Color change	4-5	4	3-4
		Staining	4	3-4	3
	Rubbing	Dry	4	3-4	3-4
		Wet ¹	3-4	3	2-3
	Light		4	3-4	3
Lining – Color fastness / grade $\geq$	Washing	Staining	4	3-4	3-4
	Water	Staining	4	3-4	3
	Rubbing	Dry	4	3-4	3-4
Seam slippage / cm $\leq^3$			0.4		
Standard safety size for drawstrings on children's upper wear			According to GB/T 22702		
Safety specifications for cords and drawstrings on children's clothing			According to GB/T 22705		
Infant Apparel - sewing strength of cords / N			According to FZ/T 81014		
Infant Apparel - accessory pull strength / N			According to FZ/T 81014		
Down-proof properties / number of particles $\leq^2$			5	15	50
Remark 1: The pass result of color fastness of wet rubbing for raised, brushed or flocked fabric can be ½ grade lower than this standard.					
Remark 2: The assessment of down-proof properties only considers the fabric with direct down and feather contact.					
Remark 3: The result of seam slippage showing fabric break, tear or seam break are pass, and results showing fabric slippage are failed.					

TABLE 2. SUMMARY OF THE MAIN DIFFERENCE IN THE TESTING ITEMS AND REQUIREMENT BETWEEN GB/T 14272-2011 AND GB/T 14272-2002

	GB/T 14272-2011	GB/T 14272-2002
Filling material requirement	Specified in Section 4.4 and Appendix A-C - Residual oil content test is added	Specified in Section 3.4 - Suggested to follow FZ/T 81002 -requirement on the down content, filling power, cleanliness etc.
Additional test	Azo dyes, color fastness to water, down-proof properties of fabrics	-
Seam slippage test	Testing method is specified in Appendix D - Testing force for shell of other fibre (except silk): 100 N Lining: 70N Specific force requirement for silk shell	Testing method is specified in Appendix A - Testing force for both shell and lining is 100 N
Children and infant clothing safety requirement	Added Children safety requirement - drawstring, seam strength of cords, accessory pull strength	No children safety requirement
Seam strength at back rise	Removed	Required

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