

Chinese Apparel Standards (Down Garments)

Source: GB/T 14272-2021
data compiled and provided by IDFL Laboratory and Institute



Applicable Products

This standard is applicable to the various garments produced with woven fabrics as the main fabric and down as the main filler. The other areas, such as zipper lines, pocket covers, hood and collar can be filled with other fillings.

Product Classification

Lowest usable down label is 50%. Net Fill Weight of finished products must be no less than -5.0% of claimed value. The apparel in this standard can be classified into three grades (Superior, First Grade, and Passing). The classification depends on the fabrics quality and sewing workmanship. The down filling for these classifications does not change. The only difference is the sewing and fabric

"White" Label

If product is labeled white, colored down and feather shall be $\leq 1.0\%$.

Sample Collection and Testing Method

All sample collection and testing methods are implemented according to the GB/T 14272-2021 standards.

Labels

Product label should clearly indicate the specifications, type of product, filling (down cluster, species), net fill weight, production date, factory name, etc. Feather portion is unnecessary to list.

Cleanliness Requirement

Oxygen must be $\leq 5.6\text{mg}/100\text{g}$.
Turbidity must be $\geq 500\text{mm}$.
Fat & Oil must be $\leq 1.2\%$.
Odor rating must be Qualified.
Moisture is not required.

Species: Goose or Duck label

All goose products must contain a minimum of 85% goose. (NOTE: Down % & Feather % must both meet 85% separately.)
No requirements for Duck.

APnEO Requirement

P + OP < 10mg/kg
NP + OP + NPnEO + OPnEO < 100mg/kg
(Note: n = 2~16)

Claimed down cluster (%)	Minimum down cluster (-5% allowance)	Down fiber + feather fiber (%) \leq	Landfowl (%) \leq	Goose down and feathers content (%) \geq (see Note 2)	Colored Down and Feathers (%) \leq (see Note 3)	Residue (%) \leq	Fill Power Height (cm) \geq	
							Duck	Goose
50	45	10.0	1.5	85.0	1.0	1.0	11.5	12.5
55	50	10.0	1.5	85.0	1.0	1.0	12.0	13.0
60	55	10.0	1.0	85.0	1.0	1.0	12.5	13.5
65	60	10.0	1.0	85.0	1.0	1.0	13.0	14.0
70	65	10.0	1.0	85.0	1.0	1.0	13.5	14.5
75	70	10.0	1.0	85.0	1.0	1.0	14.0	15.0
80	75	10.0	1.0	85.0	1.0	1.0	14.5	15.5
85	80	10.0	1.0	85.0	1.0	1.0	15.5	16.5
90	85	10.0	1.0	85.0	1.0	1.0	16.0	17.0
95	90	5.0	1.0	85.0	1.0	1.0	16.5	17.5

Notes

1. If the down cluster of goose down sample is < 80%, test both down and feather species. If the down cluster of goose down sample is $\geq 80\%$, only test the down species.
2. If the sample is labeled a goose product, test for its species. After the content analysis and species test, the total goose content should be $\geq 85\%$; if the sample is only tested for the species, the goose down and goose feathers content should be $\geq 85\%$ separately; if the sample is only tested for the down species, the goose down content should be $\geq 85\%$; if the sample is labeled a duck product, there's no need to do the species test.
3. Color: Only evaluate for the white duck/goose products.

Garment label Example:

Standard: GB/T14272-2021
Product name: Down Jacket
Brand: X
Style no.: A1234
Size: L
Size designation: 180/100A
Executive standard: GB 18401-2010, Type X
Composition:
Shell: 100% Nylon
Lining: 100% Nylon
Filling: White duck down (Down Cluster: 90%)
Net fill weight: 250g