

Final Test Report

WASHED WHITE GOOSE DOWN 65%

IDFL # 21-328542

Zhejiang Samsung Down Co., Ltd
Mon 1 March 2021

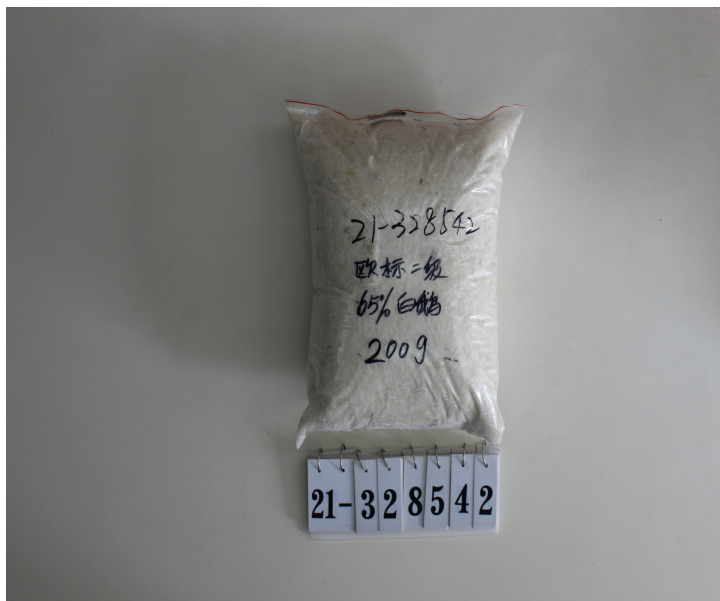
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3-Day

Arrival Date: Wed 24 Feb. 2021
Testing Dates: From Wed 24 Feb. 2021
to Mon 1 March 2021

Report Date: Fri 26 Feb. 2021
Revised Report Date: Mon 1 March 2021

Sample Type: Plumage
Shipped By: SF 1094777866460
Sample Identification: WASHED WHITE GOOSE DOWN 65%



¹ CNAS Accredited

² CMA Accredited

This analysis represents (within normal testing variances) the test results from the sample(s) submitted. The analysis may not represent the entire lot, batch or production run. In no event shall IDFL be responsible or liable for any direct, indirect, punitive, incidental, special, or consequential damages whatsoever arising out of or connected with the use of, misuse of, or reliance upon such results or analysis. This test report is subject to the Terms and Conditions found at www.idfl.com.

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Test Orders Summary

Test	Test Component	Result	Expected Value
Content EN 12131 2018	Total Down	56.6%	
Species Down & Feathers IDFB Part 12 2020	Total Goose	90%	
	Total Duck	10%	
Fill Power -Tumble Dry Conditioning EN 12130-B 2018	Final Fill Power Height	115 mm/30g	
Oxygen Number EN 1162 1996	Oxygen	1.6 mg/100g	
Turbidity EN 1164 1998	Turbidity Glass Tube	1000 mm	

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Content EN 12131 2018^{2, 1}

Down Clusters	53.9%
Down Fibers	3.8%
Waterfowl Feather Fibers	3.5%
Waterfowl Feathers	37.6%
Broken and Damaged Waterfowl Feathers	0.5%
Quill	0.0%
Landfowl	0.5%
Broken and Damaged Landfowl	0.0%
Residue	0.2%
Total	100.0%

Result(s) Used for Evaluation

Total Down	56.6%
Down Fiber Allowance (2.7%) + Down Clusters (53.9%)	
Total Waterfowl Feathers	41.0%
Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers Allowance (3.4%) + Waterfowl Feathers (37.6%)	
Other Elements	2.4%
Excess Down Fiber (1.1%) + Excess Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers (0.6%) + Landfowl (0.5%) + Broken and Damaged Landfowl (0.0%) + Residue (0.2%) + Quill (0.0%)	

Species Down & Feathers IDFB Part 12 2020¹

Goose Down	88%
Duck Down	12%
Goose Feathers	93%
Duck Feathers	7%
Total Goose	90%
Total Duck	10%

Fill Power -Tumble Dry Conditioning EN 12130-B 2018¹

Height	115 mm/30g
Volume	253 cm ³ /g

Fill Power - Steam Conditioning EN 12130-A 2018¹

Volume	560 in ³ /30g
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Oxygen Number EN 1162 1996^{2, 1}

Oxygen	1.6 mg/100g
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Turbidity EN 1164 1998 ^{2, 1}

Turbidity Glass Tube **1000 mm**

Turbidity NTU **1.64 NTU**

European Standards Down & Feather Products Labelling EN 12934

Evaluation Component	Test	Test Component	Requirement	Result	Finding
Basic	Oxygen Number EN 1162 1996	Oxygen Number	Max 20 mg/100g	1.6 mg/100g	Pass
	Turbidity EN 1164 1998	Turbidity	Greater than 300 mm	1000 mm	Pass
60% Down / 40% Feathers	Content EN 12131 2018	Total Down	Min 55%	56.6%	Pass
		Other Elements	N/A %	2.4%	-
		Down Clusters	Min 52.38%	53.9%	Pass
		Landfowl	Max 9.9%	0.5%	Pass
		Total Waterfowl Feathers	N/A %	41.0%	-
Class I	Content EN 12131 2018	Other Elements	Max 5%	2.4%	Pass
Fill Power Tumble Dry (cm³/g)	Fill Power -Tumble Dry Conditioning EN 12130-B 2018	Fill Power Tumble Dry (cm³/g)		253 cm³/g	-
Fill Power Tumble Dry (mm/g)	Fill Power -Tumble Dry Conditioning EN 12130-B 2018	Fill Power Tumble Dry (mm/g)		115 mm/30g	-
Goose (Down & Feathers)	Species Down & Feathers IDFB Part 12 2020	Total Goose	Min 70%	90%	Pass

Total Down: Down Fiber Allowance (2.7%) + Down Clusters (53.9%) = **56.6%**

Total Waterfowl Feathers:

Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers Allowance (3.4%) + Waterfowl Feathers (37.6%)

= **41.0%**

Other Elements:

Excess Down Fiber (1.0999999999999996%) + Excess Waterfowl Feathers & Broken and Damaged Waterfowl Feathers (0.6000000000000001%) + Landfowl (0.5%) + Broken and Damaged Landfowl (broken_and_damaged_0.5%) + Residue (0.2%) + Quill (0.0%)

= **2.4%**

Landfowl:

Landfowl (0.5%) + Broken and Damaged Landfowl (broken_and_damaged_0.5%)

= **0.5%**

Suggested Label based on **EN 12934** requirements

New Pure Goose Down & Feathers Class I,
60% Down
40% Feathers

The decision rules found in the test standard EN 12934:1999 fall within the measure of uncertainty as referenced in the relevant test standards

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