

羽毛绒检测报告单

Feather and Down Test Report 吸湿排汗羽绒

CONTENT II	DFB Part 3 2013
朵绒 Down Clusters	91.6%
绒丝 Down Fibers	2.3%
羽丝 Waterfowl Feather Fibers	1.0%
毛片 Waterfowl Feathers	4.3%
损伤羽毛 Broken and Damaged Waterfowl Feathers	0.1%
长毛片 Quill	0.0%
陆禽毛 Landfowl	0.3%
杂质 Residue	0.4%
总计 Total	100%
蓬松度 Steam Fill Power IDFB	Part 10 -B 2015
Volume	775 in³ /30g
耗氧指数 Oxygen II	DFB Part 7 2013
耗氧指数 Oxygen	1.6 mg/100g
清洁度 Turbidity IDI	FB Part 11 2013
浊度玻璃管 Turbidity Glass Tube	1000mm
残值率 Fat and Oil II	DFB Part 4 2013
残值率 Fat and Oil	0.9%
APEO IS	0 18254-1 2016
Octylphenol Polyethoxylate (OPEO)	3.1
Nonylphenol Polyethoxylate (NPEO)	2.2
SUM (OPEO+NPEO)	5.3

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STUDY N°LIU210819: EFFICACY ASSESSMENT OF DOWN TREATED WITH "COOL TOUCH MOISTURE MANAGEMENT"

"Efficacy assessment of feathers treated with COOL TOUCH MOISTURE Title:

LIU210819 Report Nr.:

LIU QIAO Customer:

August, 21th 2019 Date:

Camille PALAMIDESSI Research Engineer at Proneem

SAMPLES DESCRIPTION

Sample #	Textile material	Treatment
1	Goose down	COOL TOUCH @12%w/w
2	Goose down	UNTREATED

II. PERFORMANCE TESTS

Microtek, 87 boulevard de la Méditerranée, 13015 Marseille, France Laboratory:

Camille PALAMIDESSI, Engineer Study monitor:

Study completion date: 25/07/2019

COOL TOUCH MOISTURE MANAGEMENT: Methods:

ū址介手口 物 Water absorption speed (Internal Method) -□激珅硩蝧衍 Water diffusion radius (Internal Method) -□激硌碂□坌

Drying speed (Internal Method)

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III. RESULTS

编制日期:(Compile Date)

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批准日期: (Approval Date)

□激珅硩蝧♂

∠□盅□□□ 1□獉胼蠡蝧珅硩π訏□獤□倀穕 A. WATER ABSORPTION SPEED 412□□妖姘瞱瞩□ 粬□

Comparison with the control sample 0.98 The sample becomes hydrophilic. >1h (Hydrophobic)

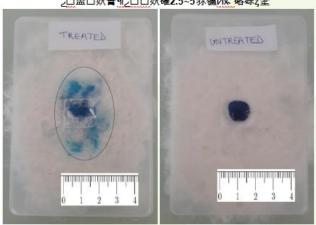
校准日期:(Check Date)

B. WATER DIFFUSION RADIUS 稿硌碂□坌□マ□確囙虏倀穥碂□

Comparison with the control samp 2.5-5.0 x2.5-5.0 bigger

efficiently diffused. 格碂Z全繁穉

∠□盅□妖膏ҹ」□□妖確2.5~5狝犥Üst 硌碂z全









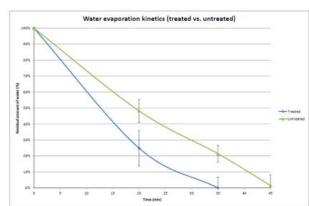


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□籬蝧る

C. DRYING SPEED 2□盅□妖□激□籬蟆፥影·•1、□□妖忭。22%。□

Comparison with the control sample Sample # 22% faster N/A



Treated sample dries 22% faster than control sample. ៕∠□□妖⇔得□ 籬□妖碻樌傶∠□盅□妖夹1.28狝碻樌

IV. CONCLUSION 者如

COOLTOUCH□激懵□∠□ □妖叨□Й胼珊匍

Sample treated with "COOL TOUCH MOISTURE MANAGEMENT" (at 12% w/w) exhibits an improved "moisture management" performance in comparison with the untreated sample:

□□田□妖胼癲馭 □ 藍蛛珅硩 □激(ョロ1>-)

The treated sample becomes hydrophilic and absorbs quickly the water (<1 second).

Diffusion radius is 2.5 to 5.0 bigger than on the control sample.

- Drying is 22% faster on the treated sample than on the control sample. □妖珅硩硌碂□全╗□┞奲□2.5~5狝尋牧□□籬◎襑碻樌傶□┞奲盝22%

The conclusion is that COOL TOUCH MOISTURE MANAGEMENT" treatment improves the "moisture management" characteristics of the down (absorption, diffusion, drying).

Camille PALAMIDESSI 21/08/2019

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