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TESTING
CNAS L0599

Test Report

ASH22-064234-02

Date: 03 Feb 2023

Client Name: Shanghai Xiangyi Industrial Co., LTD
Client Address: No.899, ChengXi Road, Pinghu City ZheJiang Province CHINA

Sample Name: COOLMOON
Manufacturer: SUNHO TEXTILE DYEING CO.LTD
Sample Batch No.: 29183
Production Date: 2022-12-9
Sample other information: 32/1 Ry60Et40

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received : 12 Dec 2022
Testing Period : 12 Dec 2022 - 27 Dec 2022
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).



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SGS Authorized Signature

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Testing Center Agency and Reference Laboratory

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Sample Description :

Specimen No.	SGS Sample ID	Description
1	ASH22-064234.001	sample in bag
2	ASH22-064234.002	sample in bag

Test Result(s) :

Test Requested : Safety test (Halo method)
Antibacterial test

Test Method : Washing method for safety test: FZ/T 73023-2006 Antibacterial knitwear - Appendix C
Washing test methods for antibacterial fabric sample
Safety test: FZ/T 73023-2006 Antibacterial knitwear - Appendix E The test method for determining the leaching efficiency of the antimicrobial agents - Halo method
Washing method for safety test: FZ/T 73023-2006 Antibacterial knitwear - Appendix C Washing test methods for antibacterial fabric sample
Antibacterial activity test: FZ/T 73023-2006 Antibacterial knitwear - Appendix D.8 Dynamic condition test method

ASH22-064234.001

Test organism(s)	Escherichia coli ATCC 25922	Staphylococcus aureus ATCC 6538	Candida albicans ATCC10231
Incubate time (h)	18h	18h	48h
Width of halos D (mm)	0	0	0
Comment	Pass	Pass	Pass

ASH22-064234.002

Test organism(s)	Candida albicans ATCC10231	Escherichia coli ATCC 25922	Staphylococcus aureus ATCC 6538
Standard control sample-0 h (cfu/mL)	1.9x10 ⁴	2.2x10 ⁴	2.4x10 ⁴
Blank-0 h (cfu/mL)	1.9x10 ⁴	2.2x10 ⁴	2.4x10 ⁴
Treated sample-18 h (cfu/mL)	1.4x10 ⁴	1.3x10 ⁶	6.9x10 ⁴
Standard control sample-18 h (cfu/mL)	1.7x10 ⁵	4.9x10 ⁶	6.1x10 ⁶

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	Candida albicans ATCC10231	Escherichia coli ATCC 25922	Staphylococcus aureus ATCC 6538
Blank-18 h (cfu/mL)	1.8x10 ⁵	1.3x10 ⁶	1.2x10 ⁶
Bacteriostatic value (%)	92	73	99
Comment	Pass	Pass	Pass

Notes :

ASH22-064234.001:wash 1 time

Test the front of the fabric.

The standard control sample is provided by SGS lab.

Safety requirement: After being washed 1 time, the width of halos $D \leq 5$ mm.

After being washed 1 time with the method of FZ/T 73023-2006 Antibacterial knitwear – Appendix C.3 Standard washing condition and procedure, the test result of the leaching efficiency for the submitted treated sample.

ASH22-064234.002:wash 50 time

After being washed 50 times(10 washing cycles),with the method of FZ/T 73023-2006 Antibacterial knitwear – Appendix C.4 Simple washing condition and procedure, the test result of the antibacterial efficacy for the submitted sample.

The specification after 50 washing times for Grade AAA product of FZ/T 73023-2006: Escherichia coli $\geq 70\%$, Staphylococcus aureus $\geq 80\%$, Candida,Albicans $\geq 60\%$.

The standard control sample was 100% cotton fabric, provided by SGS lab.

The sterilization method was autoclave sterilization(121 °C, 15 min).

CONCLUSION:

1.After being washed 1 time, the submitted sample width of halos against Escherichia Coli, Staphylococcus Aureus, Candida Albicans complies with the safety requirement of FZ/T 73023-2006 Antibacterial knitwear for leaching efficiency of the antimicrobial agents (After being washed 1 time, the width of halos $D \leq 5$ mm).

2.After being washed 50 times(10 washing cycles), the submitted sample bacteriostatic value against Escherichia Coli, Staphylococcus Aureus,Candida Albicans complies with the antibacterial efficacy requirement of FZ/T 73023-2006 Antibacterial knitwear for grade AAA product.

Remark:

1.Unless otherwise stated, the judgement of compliance in this report is based on whether the test result is within the specified limits or specifications with no account taken of the uncertainty.

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Sample photo:



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