

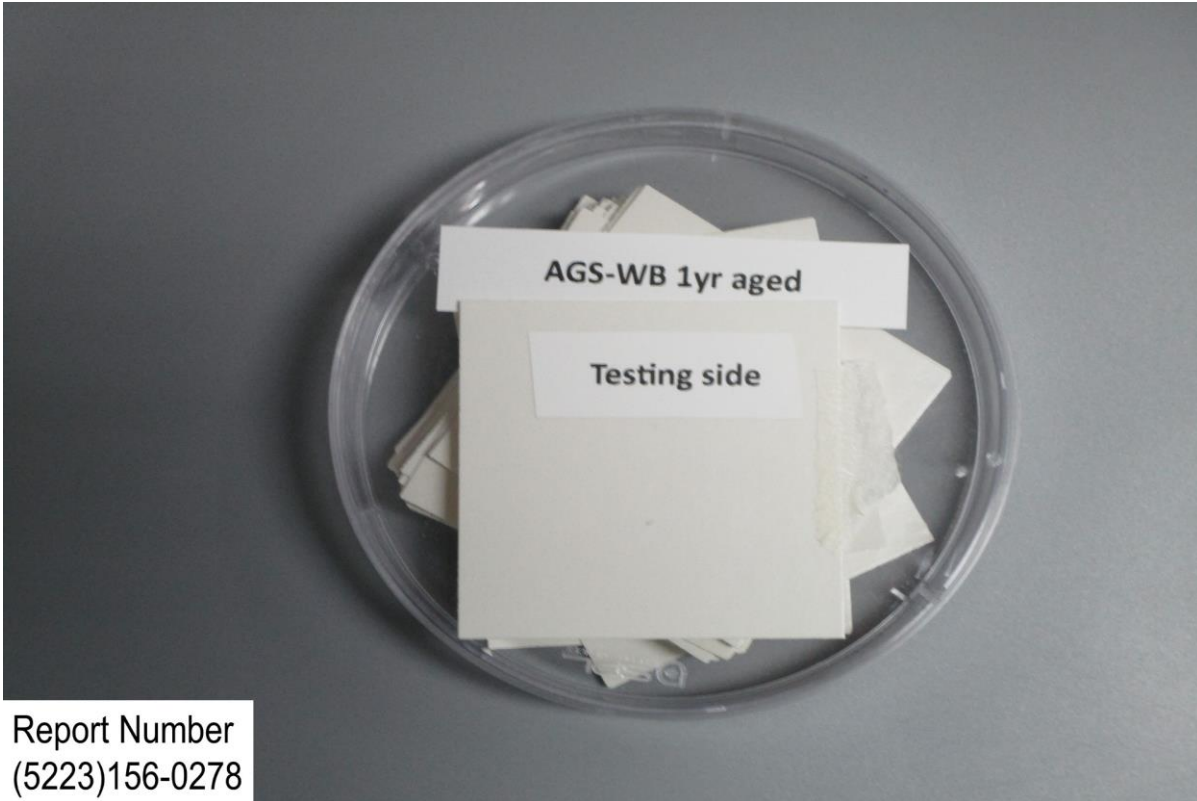


**BUREAU  
VERITAS**

# TEST REPORT

**Technical Report:** (5223)156-0278

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June 19, 2023



**Report Number**  
**(5223)156-0278**

BUREAU VERITAS HONG KONG LIMITED  
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This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

The result(s) apply to the sample(s) as received.  
The location of performance of the laboratory activities is defined as Kowloon Bay office unless specified.



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# TEST REPORT

**TO :** NEW ISLAND PRINTING CO LTD  
RM1701,17/F BILLION PLAZA  
8 CHEUNG YUE STREET  
CHEUNG SHA WAN  
KOWLOON,  
HONG KONG

**LAB NO.:** (5223)156-0278  
**FORM NO.:** /  
**DATE IN:** Jun 05, 2023  
**DATE OUT:** Jun 19, 2023  
**BUYER:** NANO AND  
ADVANCED  
MATERIALS  
INSTITUTE LTD

**ATTN :** RAIN NG

**NO. OF WORKING DAYS:** 11  
**PAGE 2 OF 5**

<b><u>OVERALL RATING</u></b>	
<b>PASS</b>	_____
<b>FAIL</b>	_____
<b>DATA</b>	_____ <b>X</b> _____

<b>Vendor:</b>	/	<b>Agent:</b>	/
<b>Fabric Supplier/Mill:</b>	/	<b>Factory/Manufacturer:</b>	/
<b>P.O. No.:</b>	/	<b>Style No.:</b>	AGS-WB 1YR AGED
<b>Sample Description:</b>	AGS-WB 1YR AGED	<b>Style Description:</b>	/
<b>Color:</b>	/	<b>Country of Origin:</b>	/
<b>Claimed Fabric Weight:</b>	/	<b>Claimed Fabric Count:</b>	/
<b>Yarn Size:</b>	/	<b>Submitted Size:</b>	/
<b>Size Range:</b>	/	<b>FPU No.:</b>	/
<b>GPU No.:</b>	/	<b>End Use:</b>	/
<b>Finishing:</b>	/	<b>Age Group:</b>	/
<b>SKU:</b>	/		

<b>Product Category</b>	/
<b>Test Requested</b>	/
<b>Previous Report No.</b>	/

<b>Submitted Fiber Content</b>	/
<b>Actual Fiber Content</b>	/
<b>Suggested Fiber Content</b>	/
<b>Submitted Care Instruction(s)</b>	/
<b>Client Expected Care Instruction</b>	/
<b>Suggested Care Instruction(s)</b>	/



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TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
AATCC 100-2019: Quantitative Determination of Antibacterial Finishes on Textile Materials			X	

BUREAU VERITAS HONG KONG LIMITED

JEFF CHAN  
MANAGER  
SOFTLINES DEPARTMENT



**Executive summary**

The sample(s) was/were tested to the following standard and the data provided is for informational purposes only.

**- AATCC 100-2019: Quantitative Determination of Antibacterial Finishes on Textile Materials**

**Method Summary**

The anti-bacterial properties were evaluated using AATCC 100-2019: Quantitative Determination of Antibacterial Finishes on Textile Materials with the modification of using film to enhance the surface contact.

The following organisms were used for this test: *Staphylococcus aureus* (ATCC strain no. 6538) and *Escherichia coli* (ATCC strain no. 25922).

Test samples were inoculated with the test organisms. After incubation, the bacteria were eluted from the samples by shaking in known amounts of neutralizing solution. The number of bacteria present in this liquid was determined, and the percentage reduction by the treated specimen was calculated.

**RESULTS:**

**Tested Component:** ( A ) The test side of very pale yellow paper (AGS-WB 1yr aged)

Percent Reduction (%)		
Name of bacteria used for test	<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>
Percent Reduction (%)	≥ 99.9	≥ 99.9
Comment	For information only	

Recovery of Bacteria		
Name of bacteria used for test	<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>
The number of bacteria recovered from the inoculated treated test specimen swatches immediately after inoculation (at "0" contact time) ( C )	137,000	143,000
The number of bacteria recovered from the inoculated treated test specimen swatches incubated over the 24 hours contact period ( A )	LT100	LT100
The number of bacteria recovered from the inoculated viability control swatches incubated over the 24 hours contact period	14,600,000	86,000,000

**Note:**

Percent reduction (%) =  $100 [(C - A) / C]$

GT = Greater Than      LT = Less Than

\* Identical untreated control sample was not provided



**Remarks:**

The criterion for passing the test must be determined by the interested parties.

**Information:**

Sample size per container:	1 swatch
Volume of inoculum:	0.4 mL
Method of sterilization:	None
No. of bacteria were inoculated per sample:	292,000 cfu/ml of <i>Staphylococcus aureus</i> 282,000 cfu/ml of <i>Escherichia coli</i>
Neutralizing solution:	D/E Neutralizing Broth
The dilution of the test organism:	1:20 times diluted Trypticase Soy broth with 0.05% Triton X-100
Plate Count Medium:	Nutrient Agar
Dimension of test sample:	50 x 50 mm square
Size of the cover film:	60 x 60 mm square, PE material