

Test Report

Number: SHAH01089012

Applicant: Athletik Clothing Co., Limited
Suite 618, Huafang International Plaza, No. 178, Chengbei Road,
Zhangjiagang, Jiangsu

Date: 5 May, 2019

Sample Description:

Sample Name : HY193498 86%Graphene Polyester 14%Spandex Knitted Fabric
Test Purpose : Entrust Test
Color : Black
Fiber Content : 86%Polyester 14%Spandex
Style No : HY193498
Sample Quantity : 1
Manufacturer : Athletik Clothing Co., Ltd

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Cheng Jun
General Manager



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1 Anti-Bacterial Activity Test (Quantitative):

Washing Condition : 3 Cycles Of 12 Minutes Machine Wash At 80°F, Normal Cycle, Screen Dry.

With Reference To 2012 American Association Of Textile Chemists And Colorists, Technical Manual, AATCC Test Method 100-2012 < Antibacterial Finishes on Textile Materials: Assessment of.>

Sterilization in the autoclave (121°C, 15min) Of Sample Before Test.

Neutralizing Solution: Phosphate Buffer Solution.

Contact Time: 18-24 Hours

Incubation Time: 48Hours

Incubation Temperature: 37±2°C

Agar Medium: Nutrient Agar.

Test Culture: Staphylococcus Aureus (ATCC 6538)

Klebsiella Pneumoniae (ATCC 4352)

No. Of Test Specimen : 4 Piece/Circular/@4.8 cm In Diameter With 1.0±0.1 mL Inoculum Per Trial.

Test Result:

Test organism	Concentration of bacteria (cfu/mL)	The number of bacteria recovered from (cfu/mL)			Percent Reduction Of Bacteria (%)
		/	at "0H" contact time	at "24H" contact time	
Staphylococcus aureus ATCC 6538	2.0x10 ⁵	Sample	1.6x10 ⁵	1.0x10 ²	99.9
		Control Sample	1.8x10 ⁵	4.9x10 ⁵	/
Klebsiella pneumoniae ATCC 4352	1.9x10 ⁵	Sample	1.6x10 ⁵	1.9x10 ⁵	0
		Control Sample	1.9x10 ⁵	6.3x10 ⁶	/

Sample Received Condition: Sample In Closed Plastic Bag .

Preparation of sample: The submitted sample was washed for ___/___ wash and then subjected to the following test.

Reference Rating*:

% Reduction	Anti-Bacterial Activity
0%	Not Acceptable
< 50%	Insignificant
> 50%	Acceptable
> 95%	Acceptable & Significant

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Date Sample Received: 25 Apr, 2019

Testing Period: 25 Apr, 2019 To 30 Apr, 2019

End of report

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