

Test Report

Report No: ASH18-048042-01

Issue Date: Oct 16 2018

Client name: TitanPE Technologies, Inc.
 Client address: BD11, NO.415, GULANG ROAD, SHANGHAI, 200331
 Sample name: AG425K
 Sample Batch No.: ET001
 Product Date: /
 Manufacturer: TitanPE Technologies, Inc.

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.

SGS Sample No.: ASH18-048042.001
 Date of sample received: Sep 25 2018
 Testing period: Sep 25 2018 ~ Oct 16 2018

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Antibacterial Assessment for the submitted sample

TEST METHOD(S)/ TEST RESULT(S):

Please refer to the next page(s)

CONCLUSION(S):

Name of test bacteria (Strain number)	Antibacterial value:A	Efficacy of antibacterial property	Comment
<i>Klebsiella pneumoniae</i> (ATCC 4352)	>6.3	Antibacterial value $2 \leq A < 3$, the efficacy of antibacterial property of the test fabric can be considered significant; Antibacterial activity $A \geq 3$, the efficacy of antibacterial property of the test fabric can be considered strong	Pass, the efficacy of antibacterial property of the test fabric can be considered strong

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SGS Authorized Signature

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TEST METHOD:

ISO 20743:2013 Textiles-Determination of antibacterial activity of textile products: 8.1 Absorption method

TEST ORGANISMS:

Klebsiella pneumoniae ATCC 4352

TEST RESULT(S):

Name of test bacteria (Strain number)	<i>Klebsiella pneumoniae</i> (ATCC 4352)	
Concentration of inoculum (CFU/mL)	2.9x10 ⁵	
Difference of extremes for the three control specimens(Ig) (condition: less than 1)	0h	24h
	<0.1	<0.1
Difference of extremes for the three antibacterial testing specimens(Ig) (condition: less than 2)	0h	24h
	<0.1	<0.1
The growth value on the control sample F (F=lgC _t -lgC ₀)	3.0 (lgC _t :+7.7 , lgC ₀ :+4.7)	
The growth value on the antimicrobial-treated sample G (G =lgT _t -lgT ₀)*	< -3.2 (lgT _t :<+ 1.3 , lgT ₀ : +4.5)	
Antibacterial activity value (A=F-G)	>6.3	
Measuring method	Plate count method	
Sterilization method	Autoclave	
Incubation time	24h	

REMARK: The control sample is 100% cotton fabric, provided by SGS lab.

* In case of C₀> T₀, substitute C₀ for T₀.

SAMPLE DESCRIPTION:



*** End ***

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