



**Test Report**

**No: SHFDO100912172FDS1**

**Date: Sep 14 2010**

Client name: TitanPE Technologies, Inc.  
Client address: BD 7, No.198, Changhe Road, Shanghai, PRC

**The following sample(s) was/were submitted by/ on behalf of the client as:**

Sample name: Photocatalytic Textile  
Batch No.: A1663  
Manufacturer: TitanPE Technologies, Inc.  
SGS Reference No.: GZFDO100903654FD  
SGS Job no.: SHFDO100912172FD  
Date of receipt: Sep 01 2010  
Testing period: Sep 01 2010 ~ Sep 09 2010

**TEST(S) REQUESTED:**

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

**TEST METHOD:**

JIS L 1902:2008 The Method of antibacterial test and assessment of antibacterial effectiveness for textiles ,  
Chapter 10: Quantitative test (Absorption method)

**TEST ORGANISMS:**

*Escherichia.coli* ATCC 8739

**CONCLUSION:**

**Pass:** The Log value of bacteriostatic for *Escherichia.coli* is > 6.6, complies with JIS L 1902:2008 Specification for antibacterial finish (The bacteriostatic activity value shall be  $\geq 2.0$  for antibacterial finish) .

Signed for and on behalf of SGS

.....  
Authorized Signature

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**TEST RESULT(S):**

Name of test bacteria (Strain number)	<i>Escherichia.coli</i> (ATCC 8739)
Concentration of inoculum (CFU/mL)	$1.7 \times 10^5$
The growth value on the control sample F ( $F=M_b-M_a$ )	+ 3.8 ( $M_b$ :+ 8.1 , $M_a$ :+ 4.3)
The growth value on the antimicrobial-treated sample ( $M_c- M_d$ )	< - 2.8 ( $M_c$ :< + 1.3 , $M_d$ :+ 4.1)
Bacteriostatic activity value $S= (M_b-M_a)- (M_c-M_d)$	> 6.6
Bactericidal activity value $L= M_a-M_c$	> 3.0
Incubation time (h)	18
Measuring method	Plate count method

**REMARK:**

$M_a$ : The average of log value of bacteria obtained from the three control sample that inoculated the test germ after 0h.

$M_b$ : The average of log value of bacteria obtained from the three control sample that inoculated the test germ after 18h.

$M_c$ : The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 18h.

$M_d$ : The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 0h

The control sample is standard cotton cloth specified by JISL 1902:2008, provided by SGS lab.

**SAMPLE DESCRIPTION:** White cloth



\*\*\* End of Report\*\*\*