BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 10387/ 2	DATE: 11/10/2016

NAME OF CUSTOMER : M/s HEWI Heinrich Wilke GmbH

ADDRESS : Postfach 1260
34442 Bad Arolsen
Germany

REFERENCE : Letter Ref.: AWE – 041016 FR-2 dated 04/10/2016

DATE OF RECEIPT : 06/10/2016

DATE OF INITIATION : 06/10/2016

DATE OF COMPLETION : 11/10/2016

SAMPLE DESCRIPTION : Test specimen labeled as – (samples – attached)

Sa. Nr.	Samples / material	treatment / washes	**AWE – 16 – 2288 / SK 189**
9601	woven fabric, white with small beige squares	hydrophobic and antibacterial finish	dekor 38
Lab Control	Control Fabric	Without antibacterial finish	-

Name of Test:

Evaluation of Antimicrobial Activity by ISO 20743: 2013 (E); Quantitative Method

Test Conditions:

Sterilization of Sample : autoclaving
Neutralizer used : Buffered Saline with Triton X 100 - 0.01 %
Contact Time : 20 hours
Contact Temperature : 37^0 C
Media and Reagent : Soyabean-casein digest agar

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ANTIBACTERIAL ACTIVITY

1. Test Bacteria: Staphylococcus aureus ATCC 6538

Quantitative Assessment ISO 20743: 2007(E) (Plate Count Method)						
Concentration of Inoculum at 0 hrs. **Control Fabric (C_0)** = 1.02 x 10^5 CFU/ml						Log : 5.00
Concentration of Bacteria on **Control Fabric** after 20 hours **(C_t)** = 3.70 x 10^6 CFU/ml						Log : 6.56
Growth Value of F (F= Log C_t - LogC_0) = **1.56**						
Sample Description	Concentration of Inoculum at 0 hrs. **Test Fabric (T_0)**		Concentration of Bacteria at 20 hrs. **Test Fabric (T_t)**		**Growth Value G = Log T_t -T_0**	**Antimicrobial Value A = F – G**
	cfu	**Log**	**cfu**	**Log**		
9601	104000	5.01	<10	<1	->4.01	**>5.57**

2. Test Bacteria: Escherichia coli ATCC 11229

Quantitative Assessment ISO 20743: 2007(E) (Plate Count Method)						
Concentration of Inoculum at 0 hrs. **Control Fabric (C_0)** = 1.05 x 10^5 CFU/ml						Log : 5.02
Concentration of Bacteria on **Control Fabric** after 20 hours **(C_t)** = 4.40 x 10^6 CFU/ml						Log : 6.64
Growth Value of F (F= Log C_t - LogC_0) = **1.62**						
Sample Description	Concentration of Inoculum at 0 hrs. **Test Fabric (T_0)**		Concentration of Bacteria at 20 hrs. **Test Fabric (T_t)**		**Growth Value G = Log T_t -T_0**	**Antimicrobial Value A = F – G**
	cfu	**Log**	**cfu**	**Log**		
9601	108000	5.03	<10	<1	->4.03	**>5.65**

The Standard Antimicrobial Value A ≥ 2

COMMENT:

When tested as specified, Fabric labeled as **9601; PASSES** the Quantitative Assessment of Activity by ISO 20743: 2013(E) Test Method.

For BIOTECH TESTING SERVICES

BIOTECH TESTING SERVICES * BTS * MUMBAI *

Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)

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