



BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 10387/ 1

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
9600	woven fabric, white with silvergrey dots	hydrophobic and antibacterial finish	dekor 01
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° C
Media and Reagent : Soyabean-casein digest agar

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 (C₀) = 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 - Log C ₀) = 1.56						
Sample Description	Concentration of Inoculum at 0 hrs. Test Fabric (T₀)		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		
9600	103000	5.01	20	1.30	-3.71	5.27

2. Test Bacteria: Escherichia coli ATCC 11229

Quantitative Assessment ISO 20743: 2007(E) (Plate Count Method)						
Concentration of Inoculum at 0 hrs. Control Fabric (C₀) = 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 - Log C ₀) = 1.62						
Sample Description	Concentration of Inoculum at 0 hrs. Test Fabric (T₀)		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		
9600	106000	5.02	40	1.60	-3.42	5.04

The Standard Antimicrobial Value A ≥ 2

COMMENT:

When tested as specified, Fabric labeled as **9600**; **PASSES** the Quantitative Assessment of Activity by ISO 20743: 2013(E) Test Method.

For BIOTECH TESTING SERVICES



Shilpa
Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)