



Textilní zkušební ústav, s.p.

Cejl 480/12, 602 00 Brno, Czech Republic
(Textile Testing Institute)

TESTING LABORATORY NO. 1001

accredited according to EN ISO/IEC 17025:2018 by the Czech Accreditation Institute

TEST REPORT

AZL 20/ 0564-01

CUSTOMER: ANSIL, s.r.o.
Trenčianska 762
018 51 Nová Dubnica
Slovak Republic

SAMPLE: Non-woven fabric with antimicrobial additive ANSILVER®-T
(according to the customer order) Fibre composition: double-layer polypropylene non-woven fabric made by "melt blown" technology backed by polypropylene fabric
Antimicrobial additive: 1,2 % ANSILVER®-T
Colour: white

SUBJECT OF ASSESSMENT: Determination of antibacterial activity

CONDITIONS OF APPLICATION OF THE TEST REPORT:

Test Report contains result of the tests related to the submitted sample only. Sampling has been done by customer. The Report may not be reproduced in the way other than as a complete set. Reproduction of certain parts of the Report is subject to approval of the test laboratory, which has issued it. All information about subcontracted tests results or unaccredited test methods is presented in text part of the test report. This Report is a literal translation of the Czech version.

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PROCEDURE OF ASSESSMENT:

Determination of antibacterial activity and efficiency

was determined according to ASTM E 2149

Used bacteria (cultures delivered from Czech collection of Microorganisms):

CCM 3954 *Escherichia coli*

Conditions of assessment:

- mass of samples: $(1,0 \pm 0,1)$ g
- number of samples: 3
- sterilization of test samples: dry heat sterilization (105 °C, 3 h)
- influence time of microorganisms on test specimens: 16 h
- temperature in incubator: 37 °C
- incubation time of Petri dishes: 24 h

Results: percent reduction of bacteria calculated by following formula:

$$R = (B - A)/B \cdot 100,$$

where

R ... % reduction

A ... arithmetic average of three numbers of bacteria recovered from the inoculated treated test specimen after desired contact period (16 h)

B ... arithmetic average of three numbers of bacteria recovered from inoculum after desired contact period (16 h)

TEST RESULTS:

| Test method – ASTM E 2149 | | | |
|---|--------------------|--------------------|-----------------|
| sample identification | CFU/ml | | reduction R (%) |
| | 0 h | 16 h | |
| Inoculum | 2.17×10^5 | 1.71×10^6 | - |
| Non-woven fabric with antimicrobial additive ANSILVER®-T | 2.17×10^5 | ≤ 30 | > 99,99 |

Approved:

Petr Nasadil
Head of Testing Laboratory

