



Report VN376 129272.1 Expertise

Applicant

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Reference

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Application

Testing and certification of the resistance to disinfecting agents.

Test material

„mammut B1“

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

Number of pages contained: 7

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Translation

Expert
Ing. Hannes Vittek

A handwritten signature in blue ink, appearing to read "Vitte", written over a horizontal dotted line.

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1 Order

1.1 Chronology

Date	Received	Order
25.04.2017	26.04.2017	Testing and certification of the resistance to disinfecting agents.

1.2 Samples

Nr.	Received	Sample Identification
1	26.04.2017	„A2871“
2	26.04.2017	„A2870“
3	26.04.2017	„A2888“
4	26.04.2017	„A2883“
5	26.04.2017	„A2900“

(Unless otherwise stated samples are provided by the customer.)

1.3 Description of the specimen / Information by the applicant

The samples listed under point 1.2. are coated knitted fabrics of the collection “mammut B1” (coating: 100% PVC) only in different colours.

2 Evaluation and Summary of test results

2.1 Resistance to disinfecting agents

Determination of resistance to disinfecting agents was done against following disinfectant groups:

- DMG1: Alcoholic disinfectants
- DMG2: Aldehydic disinfectants
- DMG3: Disinfectant based on quaternary ammonium compounds
- DMG4: Disinfectants based on oxygen separators
- DMG5: Alkylamine-containing disinfectants

Tested sample:	Resistant against:				
	DG1	DG2	DG3	DG4	DG5
„A2871“	yes	yes	yes	yes	yes
„A2870“	yes	yes	yes	yes	yes
„A2888“	yes	yes	yes	yes	yes
„A2883“	yes	yes	yes	yes	yes
„A2900“	yes	yes	yes	yes	yes

3 Performed tests and individual results

3.1 Determination of resistance to disinfectants – exposure to rubbing

Test conditions

Test standard: Based on EN ISO 105 X12, SOP 042

Used rubbing finger: cylindric, 30 mm diameter

Downward force: $9 \pm 0,2$ N

Deviation from standard: For determination of rubber fastness against disinfectants one specimen in length direction was exposed with a rubbing fabric soaked in the respective disinfectant agent (DG 1- 5). Visible changes of the right side of the article was assessed after rubbing as well as the type of change was described.

Test results

Tested sample	Disinfectant group	Evaluation
1 – „A2871“	DG1	no change
	DG2	no change
	DG3	no change
	DG4	no change
	DG5	no change
2 – „A2870“	DG1	no change
	DG2	no change
	DG3	no change
	DG4	no change
	DG5	no change
3 – „A2888“	DG1	no change
	DG2	no change
	DG3	no change
	DG4	no change
	DG5	no change
4 – „A2883“	DG1	no change
	DG2	no change
	DG3	no change
	DG4	no change
	DG5	no change
5 – „A2900“	DG1	no change
	DG2	no change
	DG3	no change
	DG4	no change
	DG5	no change

3.2 Visual assessment after pretreatment with disinfecting agent

Test conditions

Description: The test samples were weighed for 96 hours at room temperature covered with a filter paper soaked in the respective disinfecting agent (DG 1-5). Subsequently, a visual assessment was made.

Result

Tested sample: 1 – 5

No sample shows a change of coating or surface.

3.3 Determination of resistance to disinfectants – exposure to abrasion

Test conditions

Test standard: Based on EN ISO 5470 part 2, SOP 042

Test method: point. 5.2; Method 2, dry

Number of specimen: 2

Abrasion load: 795 g (12 kPa)

Underlay: without PU foam

Evaluation interval: 100, 200, 300 ,500, 700 turns

Pretreatment: 96 h soaking in disinfectant agent (DG 1-5)

Test results

Tested sample: 1

Number of abrasion turns	Evaluation of damage of specimen					
	IV	DG1	DG2	DG3	DG4	DG5
100	1	1-2	2	2	2	2
200	1-2	1-2	2	2	2	2
300	1-2	2	2	2	2	2
500	2	2	2	2	2	2
700	2	2	2	2	2	2

IV...initial value (Testing in supplied condition)

Scale for evaluation of the damage:

0	None	No change of surface.
1	very mild	Change of gloss. No print abrasion (if present). No attack of surface coating.
2	mild	Change of colour. Print (if present) is partly or completed abraded. The surface coating was not attacked or only mild superficial.
3	moderate	The surface coating was attacked.
4	heavy	The surface coating is worn and the interlayer or the foam layer was attacked.
5	completely destroyed	The basic fabric appears.

3.4 Determination of separating force

Test conditions

Test standard: based on EN ISO 2411, SOP 042

Measuring range: 100 N

Deformation range: 100 mm/min

Pretreatment: 96 h soaking in disinfectant agent (DG 1-5)

Results

Tested sample: 1

Initial value (without pretreatment)	
Specimen	Mean separating force [N/50 mm]
1	34,5
2	33,8
3	32,3
4	34,4
5	33,6
Mean value	33,7
Confidence interval	± 1,1

After pretreatment	
Specimen	Mean separating force [N/50 mm]
DG1	36,1
DG2	33,8
DG3	34,0
DG4	33,6
DG5	33,0

3.5 Validity

This test report as well as the corresponding IS-OETI-TESTED Certificate are valid till 31.06.2022.

4 Remarks

Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or the ÖTI.

The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product produced unchanged.

Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided.

Without explicit written other agreement testing is destructive and the sample material is transferred to the property of ÖTI, which is entitled to freely decide on storage and disposal.

Issuance

The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

This issue replaces report 081625.1, dated 30.10.2015

Quality management, Accreditation and Notification

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.

The ÖTI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation as Testing Laboratory was provided by Akkreditierung Austria (bmwfw). The scope of accreditation is listed on www.bmwfw.gv.at/akkreditierung.

According to the decree on the use of the accreditation mark ("AkkZV") the accreditation mark is only to be used by the accredited Conformity Assessment Body.

Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of PSA-SV § 10, BGBl. Nr. 596/1994 as amended and article 13 of the Directive 89/686/EEC have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of report