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Test Report PG015 186044.1

Application

Authorization to use the mark "Tested for harmful substances according to STANDARD 100 by OEKO-TEX®" product class II, Appendix 4. First Certification

Test Material

Nano membran, 3 layers laminate material

The test material used for testing was made anonymous for laboratory purposes.

Issuing

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Annex:

Certificate PG015 186044 valid to 31.08.2022

1 Summary

The results of this test report can be used as basis for an OEKO-TEX® certification.

2 Overview

p: tested and passed; x: tested and failed; ' ': not tested

	Sample				
	1	2	3	4	5
pH-Value OEKO-TEX® Method 1 (ISO 3071 - KCl)			p	p	
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041			p	p	
Heavy Metals OEKO-TEX® Method 3.1 (Extract)	p	p			
Chlorinated Phenols and OPP OEKO-TEX® Method 5		p			
Plasticisers OEKO-TEX® Method 6	p				



Organic Tin Compounds OEKO-TEX® Method 7		p			
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13	p				
Solvent Residues OEKO-TEX® Method 14		p			
Surfactants, Wetting Agent Residues OEKO-TEX® Method 15	p				
General Sensory Odour Test OEKO-TEX® Method 21.2					p

- 1: PA 6 nanofiber fabric white Nanotex Group s.r.o.
- 2: PA 6 nano fabric Blue Nanomedical s.r.o.
- 3: laminated fabric nanoSPACE (outside PES)
- 4: laminated fabric nanoSPACE (outside CO)
- 5: Sample of S1-S4

3 Scope Of Application

An application with the appropriate OEKO-TEX® forms was submitted for **Fabric nanoSPACE: 3 layers laminate material made of face woven fabric (CO or PES) and reverse knitted fabric (PES) and inside nanomembrane material (PA 6), white.**

The application is for the Authorization to use the mark "Tested for harmful substances according to STANDARD 100 by OEKO-TEX® " product class II, Appendix 4. First Certification.

A signed declaration of conformity was submitted.

4 Samples

No.	Receipt	Sample Identification
1	29.07.2021	PA 6, nanofiber fabric, white, Nanotex Group s.r.o.
2	29.07.2021	PA 6, nano fabric, Blue, Nanomedical s.r.o.
3	29.07.2021	laminated fabric nanoSPACE (outside PES)
4	29.07.2021	laminated fabric nanoSPACE (outside CO)
5	29.07.2021	Sample of, S1-S4

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

5 Photo Overview

#1 Image 1



PA 6 nanofiber fabric white
Nanotex Group s.r.o.

#2 Image 1



PA 6 nano fabric Blue
Nanomedical s.r.o.

#3 Image 1



laminated fabric nanoSPACE
(outside PES)

#4 Image 1



laminated fabric nanoSPACE
(outside CO)

6 Tests Performed / Results

As required in the STANDARD 100 by OEKO-TEX® the test program is decided by the institute based on the article group, the requested product class and on the technical information given in the application form. Required tests are carried out according to STANDARD 100 by OEKO-TEX® and the testing procedure laid down in “STANDARD 100 by OEKO-TEX®-Testing Procedures”.

STANDARD	#3	#4
100 by OEKO-TEX®	laminated fabric nanoSPAC	laminated fabric nanoSPAC
Product Class II Annex 4	E (outside PES)	E (outside CO)

pH-Value OEKO-TEX® Method 1 (ISO 3071 - KCI) *				
Number of Tests			2	2
• Aqueous extract	[pH]	>=4.0 <=7.5	6.9	6.9

STANDARD	#3	#4
100 by OEKO-TEX®	laminated fabric nanoSPAC	laminated fabric nanoSPAC
Product Class II Annex 4	E (outside PES)	E (outside CO)

Formaldehyde OEKO-TEX® Method 2 - JIS L-1041 *				
Number of Tests			1	1
• Free formaldehyde	[mg/kg]	<75	<16	<16



STANDARD	#1	#2
100 by	PA 6	PA 6
OEKO- TEX®	nanofiber fabric	nano fabric Blue
Product	white	Nanomedic al s.r.o.
Class II	Nanotex	
Annex 4	Group s.r.o.	

Heavy Metals OEKO-TEX® Method 3.1 (Extract) *				
Number of Tests			1	1
• Antimony	[mg/kg]	<30	<0.1	<0.1
• Arsenic	[mg/kg]	<1.0	<0.02	0.05
• Lead	[mg/kg]	<1.0	<0.02	<0.02
• Cadmium	[mg/kg]	<0.10	<0.02	<0.02
• Chromium total	[mg/kg]	<2.0	<0.02	<0.02
• Cobalt	[mg/kg]	<4.0	<0.02	<0.02
• Copper	[mg/kg]	<50	<1.0	<1.0
• Nickel	[mg/kg]	<4.0	<0.10	<0.10
• Mercury	[mg/kg]	<0.02	<0.01	<0.01
• Selenium	[mg/kg]	<100	<0.40	<0.40
• Zinc	[mg/kg]		<2.00	<2.00
• Manganese	[mg/kg]		<0.40	<0.40
• Barium	[mg/kg]	<1000	<2.00	<2.00



STANDARD #2
 100 by PA 6
 OEKO- nano fabric
 TEX® Blue
 Product Nanomedic
 Class II al s.r.o.
 Annex 4

Chlorinated Phenols and OPP OEKO-TEX® Method 5 *			
Number of Tests			1
• OPP (Orthophenylphenol)	[mg/kg]	<25	<0.05
• Pentachlorophenol (PCP)	[mg/kg]	<0.50	<0.01
• 2,3,5,6-TeCP	[mg/kg]		<0.01
• 2,3,4,6-TeCP	[mg/kg]		<0.01
• 2,3,4,5-TeCP	[mg/kg]		<0.01
• Tetrachlorophenols (TeCP, Sum)	[mg/kg]	<0.50	<0.01
• 2,3,4-TrCP	[mg/kg]		<0.05
• 2,3,5-TrCP	[mg/kg]		<0.05
• 2,3,6-TrCP	[mg/kg]		<0.05
• 2,4,5-TrCP	[mg/kg]		<0.05
• 2,4,6-TrCP	[mg/kg]		<0.05
• 3,4,5-TrCP	[mg/kg]		<0.05
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<2.0	<0.05
• 2,4/2,5-DCP	[mg/kg]		<0.05
• 2,6-DCP	[mg/kg]		<0.05
• 2,3-DCP	[mg/kg]		<0.05
• 3,4-DCP	[mg/kg]		<0.05
• 3,5-DCP	[mg/kg]		<0.05
• Dichlorophenols (DCP, Sum)	[mg/kg]	<3.0	<0.05
• 2-MCP	[mg/kg]		<0.05
• 3-MCP	[mg/kg]		<0.05
• 4-MCP	[mg/kg]		<0.05
• Monochlorophenols (MCP, Sum)	[mg/kg]	<3.0	<0.05
• Phenol	[mg/kg]	<50	<5.0

STANDARD #1
 100 by PA 6
 OEKO- nanofiber
 TEX® fabric
 Product white
 Class II Nanotex
 Annex 4 Group s.r.o.

Plasticisers		
OEKO-TEX® Method 6 *		
Number of Tests		1
• DMP	[%]	<0.001
• DEP	[%]	<0.001
• DPrP	[%]	<0.001
• DIBP	[%]	0.01
• DBP	[%]	<0.001
• DMEP	[%]	<0.001
• DIPP	[%]	<0.001
• NPIPP	[%]	<0.001
• DPP	[%]	<0.001
• DIHxP	[%]	<0.001
• DHxP	[%]	<0.001
• BBP	[%]	<0.001
• DIHP*	[%]	<0.001
• DIOP	[%]	<0.001
• DCHP	[%]	<0.001
• DEHP	[%]	<0.001
• DNOP	[%]	<0.001
• DINP*	[%]	<0.001
• DNP	[%]	<0.001
• DIDP	[%]	<0.001
• DUP*	[%]	<0.001
• Sum w/ DINP	[%]	<0.05
• Sum w/o DINP	[%]	0.01
• * Components of DHNUP		
• Bisphenol A	[%]	<0.010
• D4 (Octamethylcyclotetrasiloxane)	[%]	<0.10
• D5 (Decamethylcyclopentasiloxane)	[%]	<0.10
• D6 (Dodecamethylcyclohexasiloxane)	[%]	<0.10



STANDARD #2
 100 by PA 6
 OEKO- nano fabric
 TEX® Blue
 Product Nanomedic
 Class II al s.r.o.
 Annex 4

Organic Tin Compounds OEKO-TEX® Method 7 *			
Number of Tests			1
• Trimethyltin (TMT)	[mg/kg]	<2.0	<0.05
• Dimethyltin (DMT)	[mg/kg]	<2.0	<0.05
• Monomethyltin (MMT)	[mg/kg]	<2.0	<0.05
• Tetraethyltin (TeET)	[mg/kg]	<2.0	<0.05
• Dipropyltin (DPT)	[mg/kg]	<2.0	<0.05
• Monobutyltin (MBT)	[mg/kg]	<2.0	<0.05
• Tripropyltin (TPT)	[mg/kg]	<2.0	<0.05
• Dibutyltin (DBT)	[mg/kg]	<2.0	<0.05
• Monophenyltin (MPhT)	[mg/kg]	<2.0	<0.05
• Tributyltin (TBT)	[mg/kg]	<1.0	<0.05
• Monooctyltin (MOT)	[mg/kg]	<2.0	<0.05
• Tetrabutyltin (TeBT)	[mg/kg]	<2.0	<0.05
• Diphenyltin (DPhT)	[mg/kg]	<2.0	<0.05
• Dioctyltin (DOT)	[mg/kg]	<2.0	<0.05
• Tricyclohexyltin (TCT)	[mg/kg]	<2.0	<0.05
• Triphenyltin (TPhT)	[mg/kg]	<1.0	<0.05
• Tetraoctyltin (TeOT)	[mg/kg]		<0.05
• Trioctyltin (TOT)	[mg/kg]	<2.0	<0.05

STANDARD #1
 100 by PA 6
 OEKO- nanofiber
 TEX® fabric
 Product white
 Class II Nanotex
 Annex 4 Group s.r.o.

Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13 *			
Number of Tests			1
• Naphthalene	[mg/kg]		0.06
• Acenaphthylene	[mg/kg]		0.19
• Acenaphthene	[mg/kg]		0.08
• Fluorene	[mg/kg]		<0.01
• Phenanthrene	[mg/kg]		<0.01
• Anthracene	[mg/kg]		<0.01
• Fluoranthene	[mg/kg]		<0.01
• Pyrene	[mg/kg]		<0.01
• 1-Methylpyrene	[mg/kg]		<0.01
• Cyclopenta[cd]pyrene	[mg/kg]		<0.01
• Benzo[a]anthracene	[mg/kg]	<1.0	<0.01
• Chrysene	[mg/kg]	<1.0	<0.01
• Benzo[b]fluoranthene	[mg/kg]	<1.0	<0.01
• Benzo[k]fluoranthene	[mg/kg]	<1.0	<0.01
• Benzo[j]fluoranthene	[mg/kg]	<1.0	<0.01
• Benzo[e]pyrene	[mg/kg]	<1.0	<0.01
• Benzo[a]pyrene	[mg/kg]	<1.0	<0.01
• Dibenzo[ah]anthracene	[mg/kg]	<1.0	<0.01
• Indeno[1,2,3-cd]pyrene	[mg/kg]		<0.01
• Benzo[ghi]perylene	[mg/kg]		<0.01
• Dibenzo[ae]pyrene	[mg/kg]		<0.01
• Dibenzo[al]pyrene	[mg/kg]		<0.01
• Dibenzo[ai]pyrene	[mg/kg]		<0.01
• Dibenzo[ah]pyrene	[mg/kg]		<0.01
• Sum	[mg/kg]	<10	0.33



STANDARD #2
 100 by PA 6
 OEKO- nano fabric
 TEX® Blue
 Product Nanomedic
 Class II al s.r.o.
 Annex 4

Solvent Residues OEKO-TEX® Method 14 *			
Number of Tests			1
• Benzene	[mg/kg]	<5.00	<0.10
• Formamide	[%]	<0.020	<0.010
• Dimethylformamide (DMF)	[%]	<0.10	<0.01
• N,N-dimethylacetamide (DMAc)	[%]	<0.10	<0.01
• N-Methylpyrrolidone (NMP)	[%]	<0.10	<0.01

STANDARD #1
 100 by PA 6
 OEKO- nanofiber
 TEX® fabric
 Product white
 Class II Nanotex
 Annex 4 Group s.r.o.

Surfactants, Wetting Agent Residues OEKO-TEX® Method 15 *			
Number of Tests			1
• Pentylphenol (PeP)	[mg/kg]		<0.1
• Heptylphenol (HpP)	[mg/kg]		<0.1
• Octylphenol (OP)	[mg/kg]		<0.1
• Nonylphenol (NP)	[mg/kg]		<0.1
• Sum AP	[mg/kg]	<10	<0.1
• Octylphenoethoxylate (OPEO)	[mg/kg]		<1.0
• Nonylphenoethoxylate (NPEO)	[mg/kg]		<1.0
• Sum AP & APEO	[mg/kg]	<100	<0.1
• 4-tert-butylphenol	[mg/kg]		<0.1



STANDARD #5
 100 by Sample of
 OEKO- S1-S4
 TEX®
 Product
 Class II
 Annex 4

General Sensory Odour Test OEKO-TEX® Method 21.2 *		
Number of Tests • Odour		1 no

7 Base Certificates List

Active Base Certificates for PG015 186044 (nanoSPACE s.r.o.)
 18.08.2021

Certificate holder	Certificate	Product class / Annex	Expiry date	Certificate state
Comatex Czech a.s.	PG015 144854-OETI	I / 4	30.09.2021	Valid
Safak Örme Sanayi	20.HTR.33471- HOHENSTEIN HTTI	II / 4	30.11.2021	Valid
VEBA textilní závody a.s.	PGTO 081891-OETI	I / 4	31.12.2021	Valid

8 Remarks

Period of 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 OETI. 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 is 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 OETI, which is entitled to freely decide on storage and disposal.

Issuing

This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

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All tests and services are performed under a quality management system according to EN ISO/IEC 17025. OETI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body (NB0534). (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation was provided by Akkreditierung Austria. The scope of accreditation is listed on www.oeti.biz. Due to the system for the mutual recognition of national accreditations (ILAC/IAF), this accreditation is valid worldwide.

Statements of conformity are based on the specifications of the specified standard. The "simple acceptance rule" applies, that means the measurement uncertainty is stated for the statement of conformity, but not taken into account.

In this report individual non-accredited test procedures are marked with *. However, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

According to the decree on the use of the accreditation mark ("AkkZV") the accredited Conformity Assessment Body is the only one to use the accreditation mark. Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of Regulation (EU) 2016/425 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