

Changshu Meishunqi Knitting Technology Co., Ltd.
NO. 8, Zhongxin Road, Tangqiao Meili Town
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CHINA, P.R.

Hohenstein Textile Testing Institute GmbH & Co. KG

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Our ref.
KY/SIAN/nas/LZU

Date
29. October 2019

Report No. 19.0.90121

(= 18.HCN.52703 ZV1)

Applicant:	Changshu Meishunqi Knitting Technology Co., Ltd. NO. 8, Zhongxin Road, Tangqiao Meili Town 215511 Changshu City, Jiangsu Province CHINA, P.R.
Date of order:	09/25/2019
Contact person:	Ms Gu Tel: +86 137 32608562 Email: liya3dmesh@126.com
Receipt of order:	09/30/2019
Receipt of material:	09/30/2019
Receipt of further information:	09/24/2019 Payment in advance 10/25/2019 Declaration of conformity
Details of order:	Renewal of the certificate for textile products with the label “OEKO-TEX® Confidence In Textiles – STANDARD 100 – Tested for harmful substances Annex 6”
Master no. (First certification):	18.HCN.52703

The report comprises 9 pages.

Our terms of business shall apply:
www.hohenstein.de/pdf/agb_e.pdf

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VAT REG No.
DE262079343

Hohenstein Textile Testing Institute GmbH & Co. KG · County Court Stuttgart HRA 723464
Personally liable associate: Hohenstein Verwaltungs GmbH · County Court Stuttgart HRB 752904
CEO: Dr. Stefan Droste, Lutz Lehmann · Company Headquarter is Boennigheim

For technical reasons, the Institute will allocate a new test number to each order for the renewal of a certificate. The renewed certificate will always be issued under the master number indicated in the first certification. The master number in brackets will be suffixed to the current test number of this expertise and will serve to identify the relevant product. The additional designation "ZV" with a number indicates the number of times the certificate has been renewed.

The application for renewal of the certificate was submitted using the relevant forms issued for this purpose.

The applicant enclosed the declaration of conformity and agreed to the terms of use.

The originals of all necessary documents have been signed with a legally binding signature.

The orderer confirmed that no biological active product is used.

Further the orderer confirmed that no flame retardant product is used.

Information is provided regarding following changes:

- Upgrade from Annex 4, product class II to Annex 6, product class I

The application was made for the following article group:

Air mesh fabric (spacer fabric) made of 100 % polyester, white and disperse dyed in grey.

The four product categories specified in STANDARD 100 by OEKO-TEX® are described as follows:

Product-class	Definition
I	Products for babies Products for babies in context with this standard are all articles, basic materials and accessories, which are provided for the production of articles for babies and children up to 36 months.
II	Products with direct contact to skin Skin contact articles are those which are worn with a large part of their surface in direct contact with the skin (e.g. blouses, shirts, underwear etc.).
III	Products without direct contact to skin No skin contact articles are those which are worn with only a little part of their surface in direct contact with the skin (e.g. stuffings, linings etc.).
IV	Decoration material Decoration material in context with this standard are all articles including initial products and accessories which are used for decoration such as table clothes, wall coverings, furnishing fabrics and curtains, upholstery fabrics and floor coverings.

According to the information provided by the orderer and to the specified area of use, product class I is applicable.

The test material named below was submitted for testing.

Serial No.	Description of article or material	Additional information					Material composition
		Quality	Article No.	Colour No.	Design	Colour	
1	air mesh fabric (spacer fabric)					white	PES
2	air mesh fabric (spacer fabric)	disperse dyed				grey	PES

If only parts of certain articles were included in the tests, only these parts are named in the list of materials.

TEST RESULT/S

Tests were carried out in accordance with STANDARD 100 by OEKO-TEX® Annex 6

The test results are given in the charts below.

Note: n.d. = not detectable (below quantification limit); u.o. = under observation

sample	pH			
1 air mesh fabric (spacer fabric) white	5,8			
limit values acc. to STANDARD 100 by OEKO-TEX®	product class I 4,0 – 7,5	product class II 4,0 – 7,5	product class III 4,0 – 9,0	product class IV 4,0 – 9,0

sample	formaldehyde in mg/kg (ppm)			
2 air mesh fabric (spacer fabric) grey	n.d.			
limit values acc. to STANDARD 100 by OEKO-TEX®	product class I n.d.	product class II < 75	product class III < 150	product class IV < 300

Note:

According to Japanese Law 112 "n.d." corresponds with an absorption unit < 0,05 respectively < 16 ppm.

sample	extractable (heavy) metals in mg/kg (ppm)						
	Sb antimony	As arsenic	Pb lead	Cd cadmium	Cr chromium	Co cobalt	Cu copper
1 air mesh fabric (spacer fabric) white	< 4	< 0,1	< 0,1	< 0,05	< 0,1	< 0,1	< 4
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6							
product class I	< 30	< 0,2	< 0,2	< 0,1	< 1,0	< 1,0	< 25,0 ²
product class II - IV	< 30	< 0,2	< 0,2 ¹	< 0,1	< 1,0	< 1,0	< 50,0 ²

sample	extractable (heavy) metals in mg/kg (ppm)					
	Ni nickel	Hg mercury	Ba barium	Se selenium	Zn zinc	Mn manganese
1 air mesh fabric (spacer fabric) white	< 0,1	< 0,01	< 4	< 4	< 4	< 4
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6						
product class I	< 1,0 ³	< 0,02	< 1000	< 100	< 750	< 90
product class II - IV	< 1,0 ⁴	< 0,02	< 1000	< 100	< 750	< 90

Notes:

A Test after mechanical ageing (EN 12472)

¹ No requirement for accessories made from glass

² No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products.

³ For metallic accessories and metallized surfaces: < 0,5 mg/kg

⁴ For metallic accessories and metallized surfaces: < 1,0 mg/kg

sample	phenol and chlorinated phenols in mg/kg (ppm)		
2 air mesh fabric (spacer fabric) grey	n.d.		
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6	product class I	product class II-IV	
	Pentachlorophenol (PCP)	< 0,05	< 0,25
	Tetrachlorophenols (TeCP)	< 0,05 ¹	< 0,25 ¹
	Trichlorophenols (TrCP)	< 0,20 ¹	< 1,00 ¹
	Dichlorophenols (DCP)	< 0,50 ¹	< 1,00 ¹
	Monochlorophenols (MCP)	< 0,50 ¹	< 1,00 ¹
	o-Phenylphenol (OPP)	< 10	< 10
	Phenol	< 20	< 50

Notes:

¹ sum of isomers

sample	free and cleavable cancerogenic arylamines, free and cleavable aniline in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I – IV	each < 20 aniline < 20

sample	dyestuffs and pigments in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I – IV	< 20

sample	quinoline in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® product class I – IV	< 50

sample	chlorinated benzenes and toluenes in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® product class I – IV	sum < 1,0

sample	colour fastness						to dry rubbing ¹
	to water		to perspiration				
			alkaline		acid		
2 air mesh fabric (spacer fabric) grey	PES 4-5	CO 4-5	PES 4-5	CO 4-5	PES 4-5	CO 4-5	4-5
limit values acc. to STANDARD 100 by OEKO-TEX® product class I product class II - IV	3-4 3		3-4 3-4		3-4 3-4		4 (3 ²) 4 (3 ²)

Notes:

¹ No requirements for "wash-out" articles.

² For pigment, vat or sulphurous colorants a minimum grade of colour fastness to rubbing of 3 is acceptable.

Evaluation of colour fastness (in accordance with the fastness scale prescribed under ISO 105):

5 = best result, 1 = worst result

CO = cotton, WO = wool, CV = viscose, SE = silk, PES = polyester, PA = polyamide,

PAN = polyacrylonitrile (acrylic), CA = acetate

sample	colour fastness to saliva and perspiration
2 air mesh fabric (spacer fabric) grey	fast
limit value acc. to STANDARD 100 by OEKO-TEX®	product class I fast

sample	organo tin compounds in mg/kg (ppm)
composite sample 1 air mesh fabric (spacer fabric) white 2 air mesh fabric (spacer fabric) grey	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I - IV	< 0,5¹

Notes:

¹Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 6

sample	polycyclic aromatic hydrocarbons (PAH) in mg/kg (ppm)		
composite sample 1 air mesh fabric (spacer fabric) white 2 air mesh fabric (spacer fabric) grey	n.d.		
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6		product class I	product class II-IV
	Benzo[a]pyrene	< 0,5	< 1,0
	Benzo[e]pyrene	< 0,5	< 1,0
	Benzo[a]anthracene	< 0,5	< 1,0
	Chrysene	< 0,5	< 1,0
	Benzo[b]fluoranthene	< 0,5	< 1,0
	Benzo[j]fluoranthene	< 0,5	< 1,0
	Benzo[k]fluoranthene	< 0,5	< 1,0
	Dibenzo[a,h]anthracene	< 0,5	< 1,0
	Naphthalene	< 2,0	< 2,0
	and		
	sum of all 24 PAH:	< 5,0	< 10,0

sample	surfactant, wetting agent residues in mg/kg (ppm)	
	NP / OP / HpP / PeP	NP / OP / HpP / PeP / NP (EO) / OP (EO)
2 air mesh fabric (spacer fabric) grey	n.d.	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I - IV	sum < 5,0	sum < 50,0

sample	Solvent residues in %			
	NMP (1-Methyl- 2-pyrrolidone)	DMAc (N,N-Dimethyl- acetamide)	DMF (Dimethyl- formamide)	Formamide
2 air mesh fabric (spacer fabric) grey	n.d.	n.d.	n.d.	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® product class I - IV	< 0,05 / < 0,10 ¹	< 0,05 / < 0,10 ¹	< 0,05 / < 0,10 ¹	< 0,02

Notes:

¹ For materials made of acrylic (PAN), elastane (EL)/polyurethane and aramides as well as coated (PU-, PVC-, PVC-plastisol-, PVDC-, PVC-copolymer) textiles.

sample	chlorinated solvents in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I - IV	< 1,0 ¹ sum < 5,0

Notes:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 6

sample	other VOCs and glycols in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I - IV	< 1,0 ¹ / < 10,0 ¹

Notes:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 6

sample	cresols in mg/kg (ppm)
2 air mesh fabric (spacer fabric) grey	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 6 product class I - IV	< 10,0 ¹

Notes:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 6

sample	odour test
1 - 2	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX®	product class I-IV no abnormal odour

CONCLUSION

The material for which the certification was applied fulfils the specific requirements for product class I of STANDARD 100 by OEKO-TEX® Annex 6.

The certification of the following article group is approved:

Air mesh fabric (spacer fabric) made of 100 % polyester, white and disperse dyed in grey.

Each holder of certificate has signed for the quality of his articles on his own responsibility. This is in accordance with the given declaration of conformity. He is committed to ensure this by suitable and sufficient spot checks. This commitment includes the quality of bought materials, too. In the case of delegating parts of this quality assurance to others the certifying body must be fully acquainted (see point 4 "Conformity declaration").

Oeko-Tex® is authorized to carry out spot checks in order to inspect the certified goods. The certificate holder will receive a separate test report with the results of these inspections.

If the spot checks reveal a deviation from the limit values, additional tests will have to be carried out. The relevant costs will be charged to the certificate holder.

The current version of STANDARD 100 by OEKO-TEX® is edition 02/2019. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

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