

28. May 2015
RK/isch/GAM

Test Report No. 15.0.58430

(=09.HIN.65260 ZV6)

Applicant : Sara Textiles Ltd.
Sara House, B-8, Sector-4
Noida - 201301
INDIA

Date of order : 04/03/2015

Reference no. or contact person : Mr Akshay Sharma
Tel: +91 9805 02031 8
Email: akshay@sara-intl.com

Receipt of order : 07/04/2015

Receipt of material : 07/04/2015
06/05/2015 Retest sample 4NU1, 16NU1, 18NU1, 19NU1, 21NU1
19/05/2015 Retest sample 18NU2

Receipt of further information : 07/04/2015 Payment in advance
08/04/2015 Certificate (09.HIN.68356, 11.HIN.95833)
27/05/2015 Payment for retests

Details of order : Renewal of the certificate for textile products with the label
"Confidence in textiles – Tested for harmful substances according
to Oeko-Tex® Standard 100"

Test no. of first certification (master no.) : 09.HIN.65260

This test report comprises 16 pages

The test results relate only to the test samples submitted. This test report must only be reproduced in full and not in extract form. Use of the test report in advertising or the publication of free interpretations of the test results is only allowed with the express permission of Forschungsinstitut Hohenstein. Remaining test material will usually be destroyed after 3 months. Our terms of business shall apply, www.hohenstein.de/pdf/agb_e.pdf

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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.

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.

The applicant documents that there are no changes to the previous certified article group.

Copies of Oeko-Tex® certificates (07.JA.52856, 8415, 9669, 7779, 10.HIN.76494, BMM 20528, 09.HIN.68356, 11.HIN.95833) for the products in use were enclosed with the application.

All certificates were valid at the date of application for certification.

Exact dyeing recipes for the samples are provided by the orderer.

The application was made for the following article group:

Terry towels, terry bathmats and bath robes made of 100 % cotton, reactive yarn dyed and reactive piece dyed, mattress covers made of 100 % cotton knitted jersey fabric and knitted terry fitted sheets made of 100 % cotton fabric, reactive piece dyed with raw polyester backing, inclusive accessories (sewing thread, woven label, elastic tape); produced by using material certified according to Oeko-Tex® Standard 100.

The four product categories specified in Oeko-Tex® Standard 100 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 with the exception of leather clothing.
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.).

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Product-class	Definition
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	yarn	reactive dyed				orange	CO
2	yarn	reactive dyed				red	CO
3	yarn	reactive dyed				royal blue	CO
4	yarn	reactive dyed				navy	CO
5	yarn	reactive dyed				black	CO
6	terry towel / terry bathmat - main material	bleached				white	CO
7	terry towel / terry bathmat - main material	reactive piece dyed				beige	CO
8	terry towel / terry bathmat - main material	reactive piece dyed				orange	CO
9	terry towel / terry bathmat - main material	reactive piece dyed				red	CO
10	terry towel / terry bathmat - main material	reactive piece dyed				blue (royal blue)	CO
11	terry towel / terry bathmat - main material	reactive piece dyed				green	CO
12	terry towel / terry bathmat - main material	reactive piece dyed				brown	CO

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Serial No.	Description of article or material	Additional information					Material composition
		Quality	Article No.	Colour No.	Design	Colour	
13	terry towel / terry bathmat - main material	reactive piece dyed				navy	CO
14	terry towel / terry bathmat - main material	reactive piece dyed				black	CO
15	knitted jersey-mattress covers - main material	reactive piece dyed				red	CO
16	knitted jersey-mattress covers - main material	reactive piece dyed				navy	CO
17	knitted jersey-mattress covers - main material	reactive piece dyed				black	CO
18	knitted terry- fitted sheet - main material	reactive piece dyed				yellow	CO
19	knitted terry- fitted sheet - main material	reactive piece dyed				red	CO
20	knitted terry- fitted sheet - main material	reactive piece dyed				royal blue	CO
21	knitted terry- fitted sheet - main material	reactive piece dyed				brown	CO
22	knitted terry- fitted sheet - main material	reactive piece dyed				navy	CO
23	knitted terry- fitted sheet - main material	reactive piece dyed				black	CO
24	terry towel / terry bathmat - main material	reactive yarn dyed		multi	stripe	white, lt. orange, dk. orange	CO
25	terry towel / terry bathmat - main material	reactive yarn dyed		multi	stripe	white, lt. brown, dk. brown	CO
26	terry towel / terry bathmat - main material	reactive yarn dyed		multi	stripe	red, green	CO
27	terry towel / terry bathmat - main material	reactive yarn dyed		multi	stripe	navy, aqua (light blue), white	CO
27 a	terry towel / terry bathmat - main material	reactive yarn dyed				aqua (light blue)	CO
28	terry towel / terry bathmat - main material	reactive yarn dyed		multi	stripe	royal blue, light blue	CO

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Serial No.	Description of article or material	Additional information					Material composition
		Quality	Article No.	Colour No.	Design	Colour	
4 NU1	yarn	reactive dyed				navy	CO
16 NU1	knitted jersey-mattres covers - main material	reactive piece dyed				navy	CO
18 NU1	knitted terry- fitted sheet - main material	reactive piece dyed				yellow	CO
19 NU1	knitted terry- fitted sheet - main material	reactive piece dyed				red	CO
21 NU1	knitted terry- fitted sheet - main material	reactive piece dyed				brown	CO

Serial No.	Description of article or material	Additional information					Material composition
		Quality	Article No.	Colour No.	Design	Colour	
18 NU2	knitted terry - fitted sheet - main material	reactive piece dyed				yellow	CO

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

After being informed about the results by advanced notice the orderer sent improved samples from the same finishing quality (NU) resp. improved samples from a comparable finishing quality (E).

Test Result/s

Tests were carried out in accordance with Oeko-Tex® Standard 100.

The test results are given in the charts below.

Note: n.d. = not detectable (below quantification limit)

sample	pH-Value
1 yarn orange	6,5
3 yarn royal blue	6,8

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sample	pH-Value
7 terry towel / terry bathmat - main material beige	6,5
9 terry towel / terry bathmat - main material red	6,1
11 terry towel / terry bathmat - main material green	6,1
14 terry towel / terry bathmat - main material black	5,9
16 knitted jersey-mattres covers - main material navy	8,2
18 knitted terry- fitted sheet - main material yellow	7,8
21 knitted terry- fitted sheet - main material brown	8,2
23 knitted terry- fitted sheet - main material black	6,9
26 terry towel / terry bathmat - main material red, green	6,8
28 terry towel / terry bathmat - main material royal blue, light blue	6,3
limit values acc. to Oeko-Tex® Standard 100	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	pH-Value
16NU1 knitted jersey-mattres covers - main material navy	7,2
18NU1 knitted terry- fitted sheet - main material yellow	8,4

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sample	pH-Value
21NU1 knitted terry- fitted sheet - main material brown	6,6
limit values acc. to Oeko-Tex® Standard 100	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	pH-Value
18NU2 knitted terry- fitted sheet - main material yellow	5,0
limit values acc. to Oeko-Tex® Standard 100	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 yarn red	n.d.
5 yarn black	n.d.
8 terry towel / terry bathmat - main material orange	n.d.
10 terry towel / terry bathmat - main material blue (royal blue)	n.d.
13 terry towel / terry bathmat - main material navy	n.d.
17 knitted jersey- mattrres covers - main material black	n.d.
20 knitted terry- fitted sheet - main material royal blue	n.d.
25 terry towel / terry bathmat - main material white, lt. brown, dk. brown	n.d.
limit values acc. to Oeko-Tex® Standard 100	product class I n.d. product class II 75 product class III 300 product class IV 300

Note:

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

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sample	extractable heavy metals in mg/kg (ppm)								
	Sb antimony	As arsenic	Pb lead	Cd cadmium	Cr chromium	Co cobalt	Cu copper	Ni nickel	Hg mercury
2 yarn red	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	0,11	< 0,01
6 terry towel / terry bathmat - main material white	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	< 0,1	< 0,01
14 terry towel / terry bathmat - main material black	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	0,14	< 0,01
21 knitted terry- fitted sheet - main material brown	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	0,24	< 0,01
22 knitted terry- fitted sheet - main material navy	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	0,54	< 0,01
limit values acc. to Oeko-Tex® Standard 100									
product class I	30	0,2	0,2	0,1	1,0	1,0	25,0 ³	1,0 ⁴	0,02
product class II	30	1,0	1,0 ¹	0,1	2,0	4,0	50,0 ³	4,0 ⁵	0,02
product class III	30	1,0	1,0 ¹	0,1	2,0	4,0	50,0 ³	4,0 ⁵	0,02
product class IV	--	1,0	1,0 ¹	0,1	2,0 ²	4,0	50,0 ³	4,0 ⁵	0,02

Notes:

A Test after mechanical ageing (EN 12472)

¹ No requirement for accessories made from glass

² For leather articles 10 mg/kg

³ No requirement for accessories made from inorganic materials

⁴ For metallic accessories and metallized surfaces: 0,5 mg/kg

⁵ For metallic accessories and metallized surfaces: 1,0 mg/kg

sample	phenols in mg/kg (ppm)			
	pentachlorophenol (PCP)	tetrachlorophenols (TeCP)	trichlorophenols (TrCP)	o-phenylphenol (OPP)
3 yarn royal blue	n.d.	n.d.	n.d.	n.d.
limit values acc. to Oeko-Tex® Standard 100				
product class I	0,05	sum isomers 0,05	sum isomers 0,2	50
product class II - IV	0,50	sum isomers 0,50	sum isomers 2,0	100

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sample	forbidden AZO-colorants	
	cleavable arylamines of MAK-list III (category 1 or 2) in mg/kg (ppm)	
composite sample 3 yarn royal blue 4 yarn navy 5 yarn black	n.d.	
composite sample 7 terry towel / terry bathmat - main material beige 10 terry towel / terry bathmat - main material blue (royal blue) 11 terry towel / terry bathmat - main material green	n.d.	
composite sample 19 knitted terry- fitted sheet - main material red 27a terry towel / terry bathmat - main material aqua (light blue)	n.d.	
limit value acc. to Oeko-Tex® Standard 100	product class I – IV n.d.	

sample	colour fastness						
	to water		to perspiration				to dry rubbing ¹
			alkaline		acid		
1 yarn orange	CO 4	WO 4-5					
2 yarn red							4-5
3 yarn royal blue	CO 4-5	WO 4					
4 yarn navy							4-5
5 yarn black	CO 4-5	WO 4-5					
7 terry towel / terry bathmat - main material beige							4-5

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sample		colour fastness						to dry rubbing ¹
		to water		to perspiration				
				alkaline		acid		
8	terry towel / terry bathmat - main material orange	CO 4-5	WO 4-5					
9	terry towel / terry bathmat - main material red							4-5
10	terry towel / terry bathmat - main material blue (royal blue)	CO 4-5	WO 4-5					
11	terry towel / terry bathmat - main material green							4-5
12	terry towel / terry bathmat - main material brown	CO 4-5	WO 4-5					
13	terry towel / terry bathmat - main material navy							4-5
14	terry towel / terry bathmat - main material black	CO 4-5	WO 4-5					
15	knitted jersey-mattres covers - main material red							4-5
16	knitted jersey-mattres covers - main material navy	CO 4-5	WO 4-5					
17	knitted jersey-mattres covers - main material black							4-5
18	knitted terry- fitted sheet - main material yellow	CO 4-5	WO 4-5					
19	knitted terry- fitted sheet - main material red							4-5

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sample		colour fastness						to dry rubbing ¹
		to water		to perspiration				
				alkaline		acid		
20	knitted terry- fitted sheet - main material royal blue	CO 4-5	WO 4-5					
21	knitted terry- fitted sheet - main material brown							4-5
22	knitted terry- fitted sheet - main material navy	CO 4-5	WO 4-5					
23	knitted terry- fitted sheet - main material black							4-5
24	terry towel / terry bathmat - main material white, lt. orange, dk. orange	CO 4-5	WO 4-5					
25	terry towel / terry bathmat - main material white, lt. brown, dk. brown							4-5
26	terry towel / terry bathmat - main material red, green	CO 4-5	WO 4-5					
27	terry towel / terry bathmat - main material navy, aqua (light blue), white							4-5
28	terry towel / terry bathmat - main material royal blue, light blue	CO 4-5	WO 4-5					4-5
limit values acc. to Oeko-Tex® Standard 100 product class I - IV		3		3-4		3-4		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

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sample	colour fastness to saliva and perspiration
1 yarn orange	fast
2 yarn red	fast
3 yarn royal blue	fast
4 yarn navy	not fast
5 yarn black	fast
7 terry towel / terry bathmat - main material beige	fast
8 terry towel / terry bathmat - main material orange	fast
9 terry towel / terry bathmat - main material red	fast
10 terry towel / terry bathmat - main material blue (royal blue)	fast
11 terry towel / terry bathmat - main material green	fast
12 terry towel / terry bathmat - main material brown	fast
13 terry towel / terry bathmat - main material navy	fast
14 terry towel / terry bathmat - main material black	fast
15 knitted jersey-mattres covers - main material red	fast
16 knitted jersey-mattres covers - main material navy	fast

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sample		colour fastness to saliva and perspiration
17	knitted jersey- mattres covers - main material black	fast
18	knitted terry- fitted sheet - main material yellow	fast
19	knitted terry- fitted sheet - main material red	not fast
20	knitted terry- fitted sheet - main material royal blue	fast
21	knitted terry- fitted sheet - main material brown	not fast
22	knitted terry- fitted sheet - main material navy	fast
23	knitted terry- fitted sheet - main material black	fast
24	terry towel / terry bathmat - main material white, lt. orange, dk. orange	fast
25	terry towel / terry bathmat - main material white, lt. brown, dk. brown	fast
26	terry towel / terry bathmat - main material red, green	fast
27	terry towel / terry bathmat - main material navy, aqua (light blue), white	fast
28	terry towel / terry bathmat - main material royal blue, light blue	fast
limit value acc. to Oeko-Tex® Standard 100		product class I fast

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sample	colour fastness to saliva and perspiration
4NU1 yarn navy	fast
19NU1 knitted terry- fitted sheet - main material red	fast
21NU1 knitted terry- fitted sheet - main material brown	fast
limit value acc. to Oeko-Tex® Standard 100	product class I fast

sample	organo tin compounds in mg/kg (ppm)			
	TBT	TPhT	DBT	DOT
composite sample 15 knitted jersey- mattres covers - main material red	n.d.	n.d.	n.d.	n.d.
24 terry towel / terry bathmat - main material white, lt. orange, dk. orange				
limit values acc. to Oeko-Tex® Standard 100				
product class I	0,5	0,5	1,0	1,0
product class II - IV	1,0	1,0	2,0	2,0

sample	Nonylphenol, Octylphenol and specific Alkylphenoethoxylates in mg/kg (ppm)	
	NP / OP	NP / OP / NP (EO) ₁₋₂₀ / OP (EO) ₁₋₂₀
11 terry towel / terry bathmat - main material green	n.d.	n.d.
27 terry towel / terry bathmat - main material navy, aqua (light blue), white	n.d.	n.d.
limit values acc. to Oeko-Tex® Standard 100		
product class I - IV	sum 10,0	sum 100,0

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sample	odour test
1 - 28	n.d.
limit value acc. to Oeko-Tex® Standard 100	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 Oeko-Tex® Standard 100.

It is representative of the article group for which an application for certification was made.

The certification of the following article group is approved:

Terry towels, terry bathmats and bath robes made of 100 % cotton, reactive yarn dyed and reactive piece dyed, mattress covers made of 100 % cotton knitted jersey fabric and knitted terry fitted sheets made of 100 % cotton fabric, reactive piece dyed with raw polyester backing, inclusive accessories (sewing thread, woven label, elastic tape); produced by using material certified according to Oeko-Tex® Standard 100.

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 applicant is responsible for checking the validity of the certificates issued to his suppliers.

If the term of validity of these certificates expires within the term of validity of the applicant's certificate, he is obliged to request updated or extended certificates from his suppliers.

Copies of updated certificates from suppliers should be presented as proof and for documentation purposes under the test number of the applicant's certificate.

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The actual version of Oeko-Tex® Standard 100 is edition 01/2015. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

Managing Director



Prof. Dr. Stefan Mecheels



Assistant Head of Department Oeko-Tex®



BEng Janine Weber

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