

## Investigation report

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Date: 12.03.2019

### Investigation report No. 19/258

order description: Colour fastness to artificial light: Xenon arc fading lamp  
DIN EN ISO 105-B02 (2014-11) in accordance  
to DIN EN 14465 (2006-09) Specification Upholstery fabric  
Colour fastness to rubbing DIN EN ISO 105-X12 (2016-11) in accordance  
to DIN EN 14465 (2006-09) Specification Upholstery fabric  
Seam slippage resistance DIN EN ISO 13936-2 (2004-07) in accordance  
to DIN EN 14465 (2006-09) Specification Upholstery fabric

sample: 600007 Silkwood loose in 18 colours  
sampling: by orderer  
orderer: see address  
date of order: 21.01.2019  
date of delivery: 17.01.2019  
date of testing: 11.03.2019  
number of pages: 6

**Remark:**

The results are valid only for the tested object. The accreditation applies for the methods listed in the annex to the certificate D-PL-17323-01-00. Accredited test methods are underlined. The valuations and Interpretations in the investigation report are not subject to accreditation. Tests conducted through co-operation partners are marked with °. The content of this investigation report will not be passed to third persons without written approval of the orderer. The partial publication of the test report, as well as the usage for commercial process, is only allowed with a permission of the DELCOTEX Delius Techtex GmbH & Co. KG.

Remnants of test material will be destroyed after 3 months. Previously stated specifications / data sheets / certificates are only characters and no warranties. Also no warranty in case of durability will be overtaken. Finally our general delivery and payment conditions are valid (please see [www.textillabor.eu](http://www.textillabor.eu)).



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## Instructions for performing

- 1. Method:** Colour fastness to artificial light: Xenon arc fading lamp  
**DIN EN ISO 105-B02 (2014-11)** in accordance  
to **DIN EN 14465 (2006-09)** Specification Upholstery fabric

**2. Measuring conditions:**

Tester: Atlas Xenotest alpha LM  
Light: Xenon arc beam  
Filtering system: Typ 7  
Pick and placement cycling: 240h – until Mark 6

## Test results

Sample / Colour	Mark*	Category
600007 Silkwood loose 001	6	A
600007 Silkwood loose 003	5-6	B
600007 Silkwood loose 013	4-5	C
600007 Silkwood loose 016	4-5	C
600007 Silkwood loose 019	5	B
600007 Silkwood loose 021	5-6	B
600007 Silkwood loose 024	5	B
600007 Silkwood loose 025	4-5	C
600007 Silkwood loose 026	4-5	C
600007 Silkwood loose 027	5	B
600007 Silkwood loose 028	5	B
600007 Silkwood loose 029	5-6	B
600007 Silkwood loose 030	5-6	B
600007 Silkwood loose 031	5	B
600007 Silkwood loose 032	4-5	C
600007 Silkwood loose 033	6	A
600007 Silkwood loose 034	3	/
600007 Silkwood loose 035	6	A

\* The results based on using the blue scale.  
Note 1 = intense colour change  
Note 8 = no colour change

**Remark:** According to DIN EN 14465 (2006-09), the article is classified in the above-mentioned category with regard to light fastness in furniture fabrics.

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## Instructions for performing

**3. Method:** Colour fastness to rubbing DIN EN ISO 105-X12 (2016-11) in accordance to DIN EN 14465 (2006-09) Specification Upholstery fabric

**4. Measuring conditions**

tester:	Crockmeter
pin:	Ø (16+/-0,1) mm (cylinder)
abrasive:	cotton fabric
strength:	9 +/- 0,2 N
room temperature:	20 +/- 2 °C
humidity:	65 +/- 4 %
conditioned:	>4 h
water absorption:	warp 99,10-100,0%, weft:99,10-100,0%

## Test results

**Article: 600007 Silkwood loose 001**

	Warp	Weft	Category
<b>Dry-Mark *</b>	4-5	4-5	A
<b>Wet-Mark *</b>	4-5	4-5	A

**Article: 600007 Silkwood loose 003**

	Warp	Weft	Category
<b>Dry-Mark *</b>	4-5	4-5	A
<b>Wet-Mark *</b>	4-5	4-5	A

**Article: 600007 Silkwood loose 013**

	Warp	Weft	Category
<b>Dry-Mark *</b>	4-5	4-5	A
<b>Wet-Mark *</b>	4-5	4-5	A

**Article: 600007 Silkwood loose 016**

	Warp	Weft	Category
<b>Dry-Mark *</b>	4-5	4-5	A
<b>Wet-Mark *</b>	4-5	4-5	A

**Article: 600007 Silkwood loose 019**

	Warp	Weft	Category
<b>Dry-Mark *</b>	4-5	4-5	A
<b>Wet-Mark *</b>	4-5	4-5	A

**Article: 600007 Silkwood loose 021**

	Warp	Weft	Category
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<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 024**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4</b>	<b>4</b>	<b>A</b>

**Article: 600007 Silkwood loose 025**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 026**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 027**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 028**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 029**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 030**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 031**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
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**Article: 600007 Silkwood loose 032**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 033**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 034**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

**Article: 600007 Silkwood loose 035**

	<b>Warp</b>	<b>Weft</b>	<b>Category</b>
<b>Dry-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>
<b>Wet-Mark *</b>	<b>4-5</b>	<b>4-5</b>	<b>A</b>

\* The results based on using the grey scale – ISO 105-A03.  
 Note 1 = intense colour change  
 Note 5 = no colour change

**Remark:** According to DIN EN 14465 (2006-09), the article is classified in the above-mentioned category with regard to fastness to rubbing in furniture fabrics.

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### Instructions for performing

**5. Method:** Seam slippage resistance DIN EN ISO 13936-2 (2004-07) in accordance to DIN EN 14465 (2006-09) Specification Upholstery fabric

### 6. Measuring conditions

Type:                   furnishing fabric  
 Tensile force:       180 N

### Test results

**Article:**           **600007 Silkwood loose 034**

	<b>Seam opening [mm]</b>
Warp direction (seamline weft direction)	<b>2,3</b> (2,0-3,0)
Weft direction (seamline warp direction)	<b>4,1</b> (4,0-4,5)

**Remark:** According to DIN EN 14465 (2006-09) the article, in reference to seam slippage resistance in furnishing fabrics, the article is ranked within category A.




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i. A. Detlef von Seyfried  
 Laboratory/Manager

DELCOTEX Delius Tectex GmbH & Co. KG

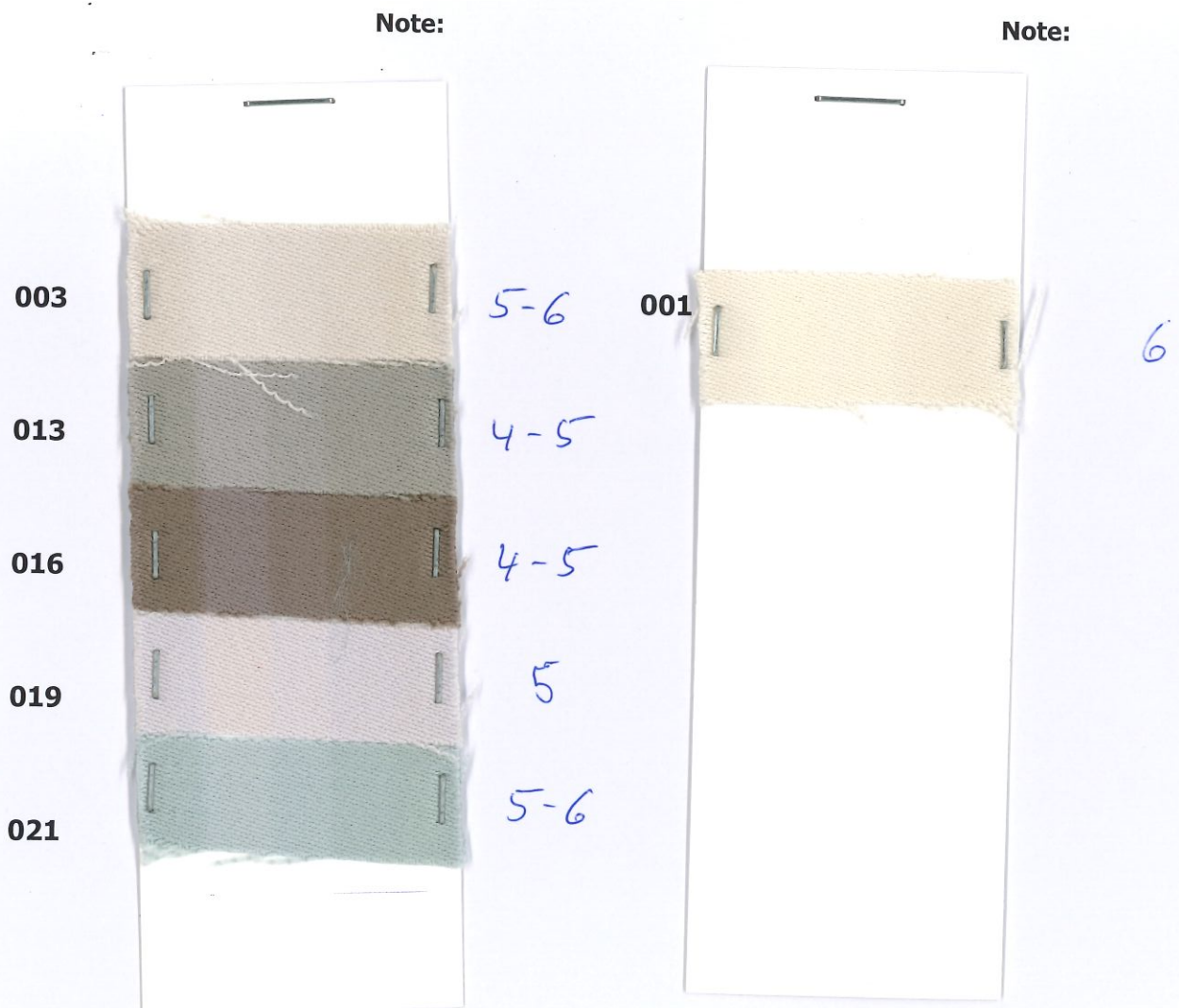
Only the information contained in the signed test report is binding.

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Appendix

Article: 600007 Silkwood

Method: Colour fastness to artificial light: Xenon arc fading lamp  
DIN EN ISO 105-B02 (2014-11) method 2



\*The end mark refers to the change of colour using the blue scale.  
Note 1 = very low colour fastness / strong change in colour  
Note 8 = very high colour fastness / no change in colour

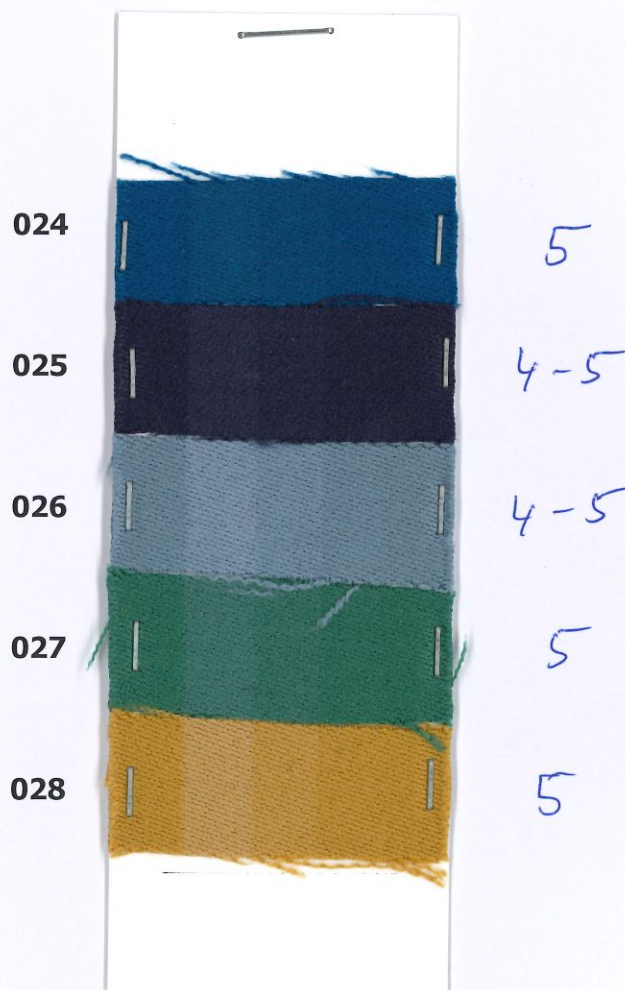
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### Appendix

**Article:** 600007 Silkwood

**Method:** Colour fastness to artificial light: Xenon arc fading lamp  
DIN EN ISO 105-B02 (2014-11) method 2

**Note:**



\*The end mark refers to the change of colour using the blue scale.  
Note 1 = very low colour fastness / strong change in colour  
Note 8 = very high colour fastness / no change in colour

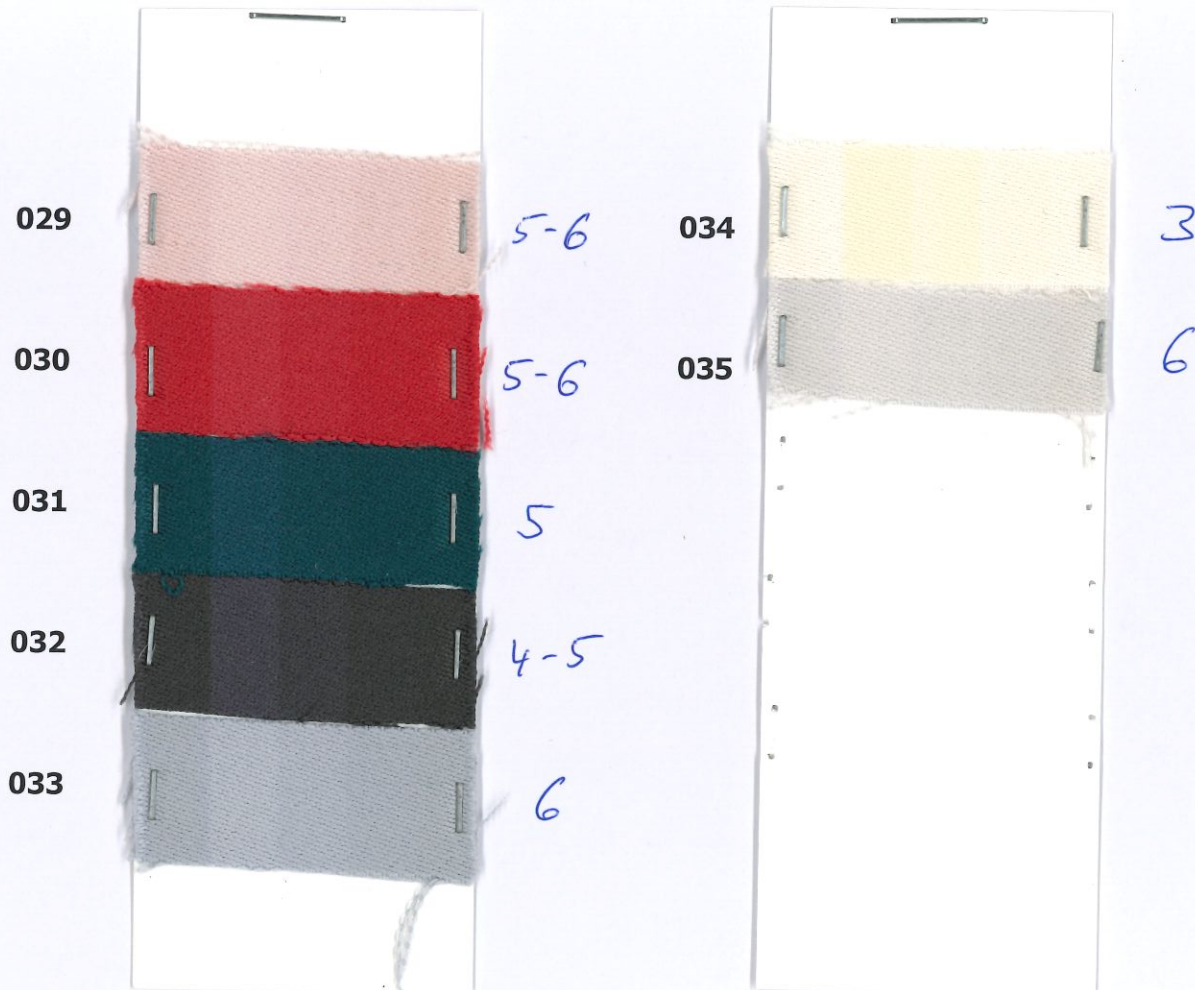
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Appendix

Article: 600007 Silkwood  
 Method: Colour fastness to artificial light: Xenon arc fading lamp  
DIN EN ISO 105-B02 (2014-11) method 2

Note:

Note:



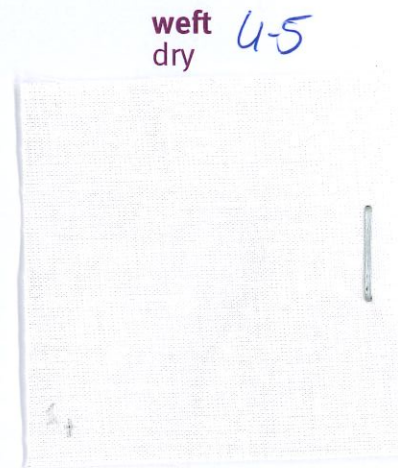
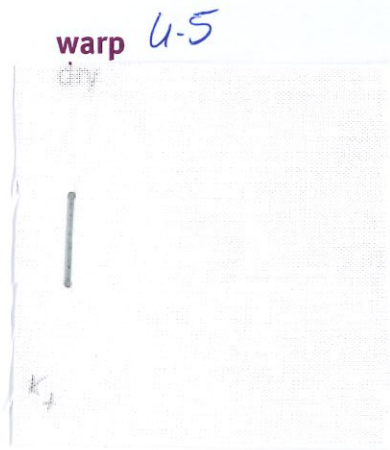
\*The end mark refers to the change of colour using the blue scale.  
 Note 1 = very low colour fastness / strong change in colour  
 Note 8 = very high colour fastness / no change in colour

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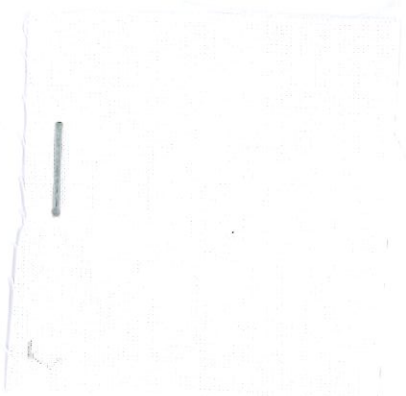
Attachment

article: 600007 Silkwood loose 001

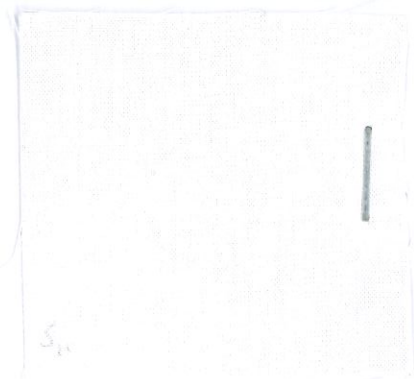
method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11



warp 4-5  
wet



weft 4-5  
wet



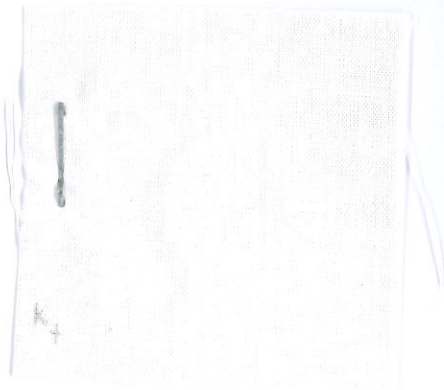
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### Attachment

**article:** 600007 Silkwood loose 003

**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

**warp**  
dry 4-5



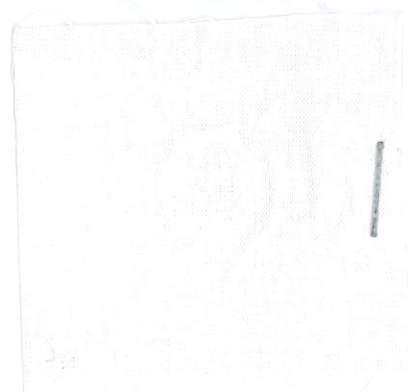
**weft**  
dry 4-5



**warp**  
wet 4-5



**weft**  
wet 4-5



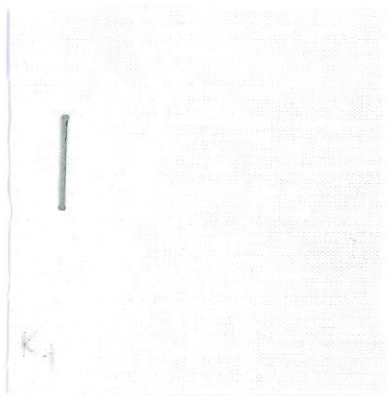
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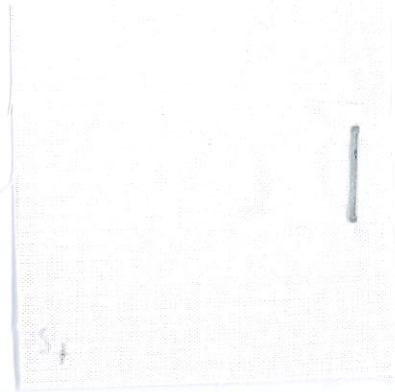
article: 600007 Silkwood loose 016

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

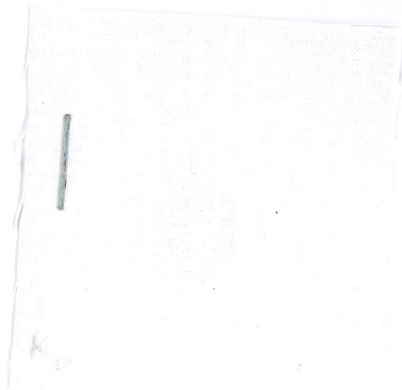
warp  
dry 4-5



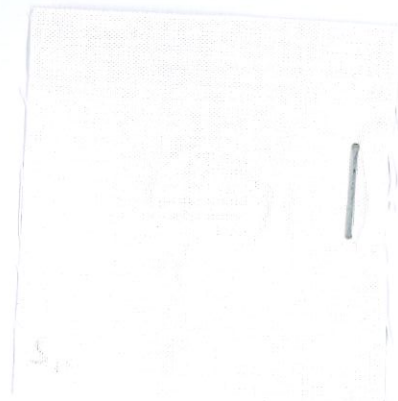
weft  
dry 4-5



warp  
wet 4-5



weft  
wet 4-5



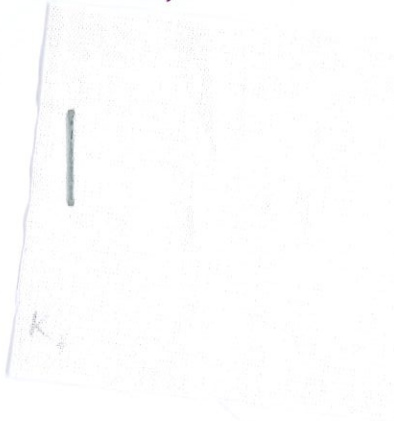
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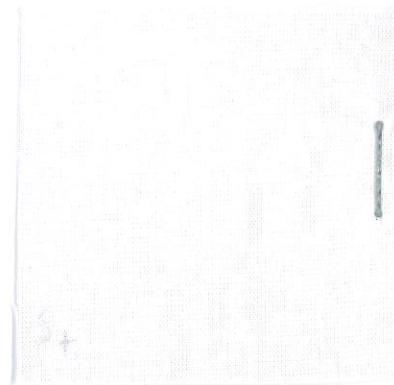
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**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

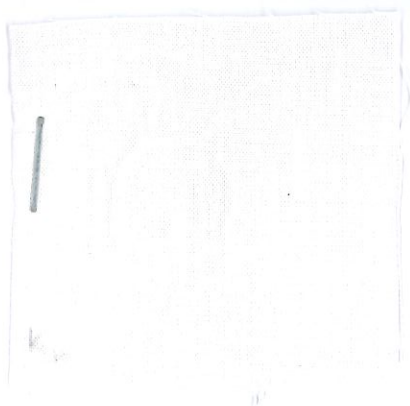
warp dry 4-5



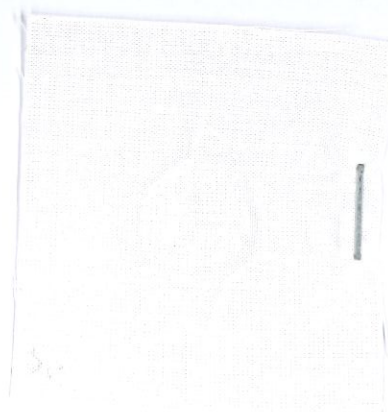
weft dry 4-5



warp wet 4-5



weft wet 4-5



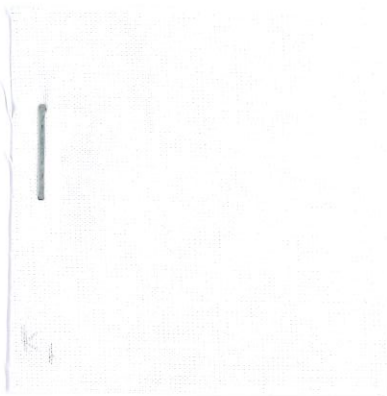
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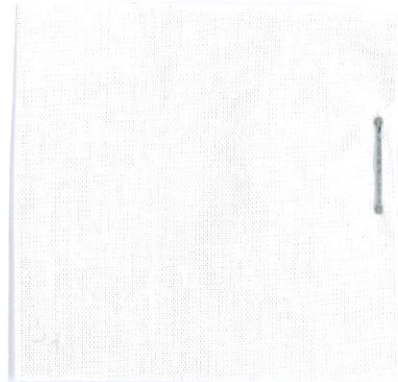
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**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

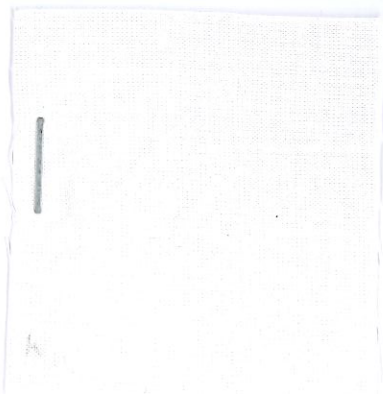
**warp**  
dry 4-5



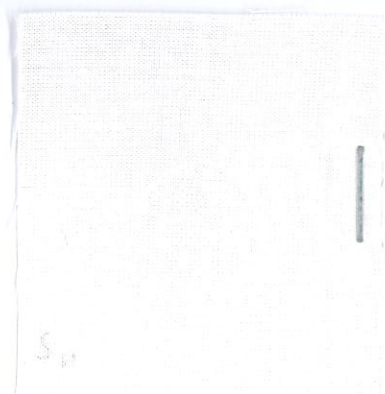
**weft**  
dry 4-5



**warp**  
wet 4-5



**weft**  
wet 4-5



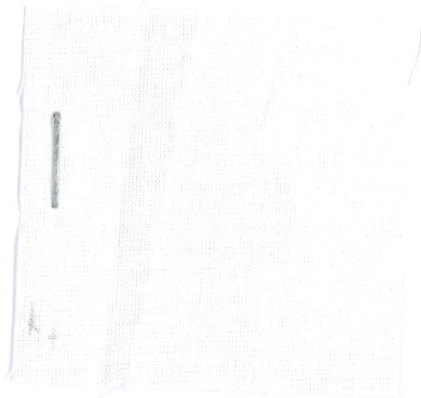
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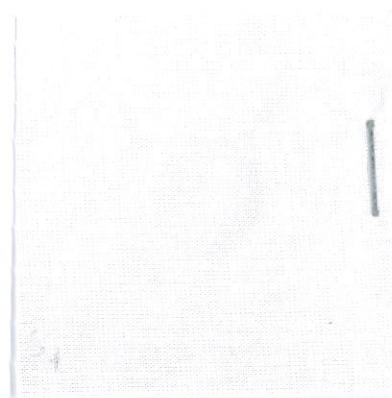
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method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

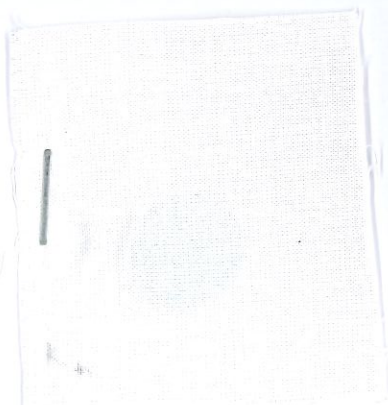
warp 4-5  
dry



weft 4-5  
dry



warp 4  
wet



weft 4  
wet



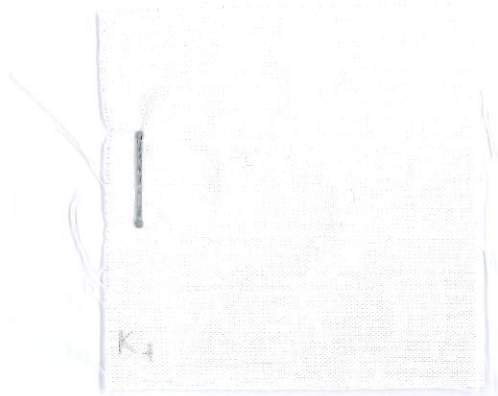
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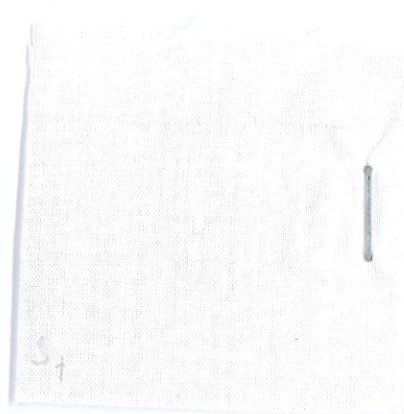
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**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

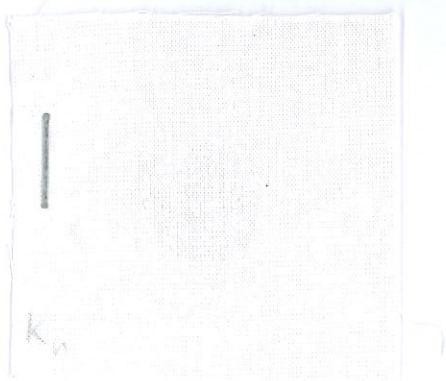
warp dry 4-5



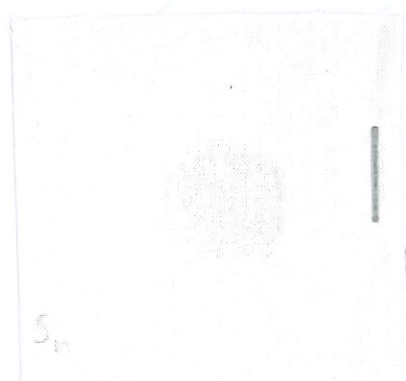
weft dry 4-5



warp wet 4-5



weft wet 4-5

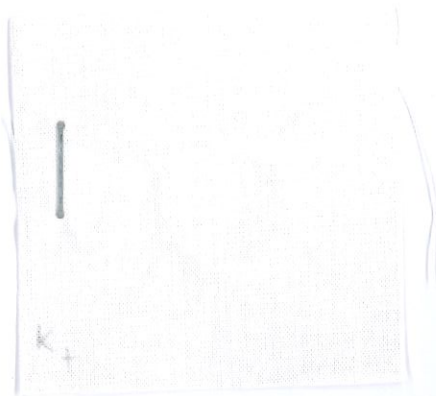


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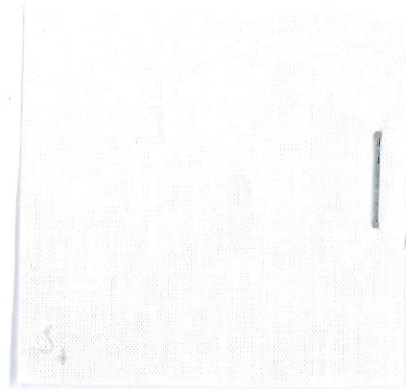
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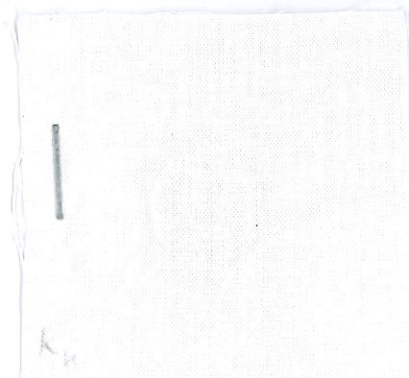
warp 4-5  
dry



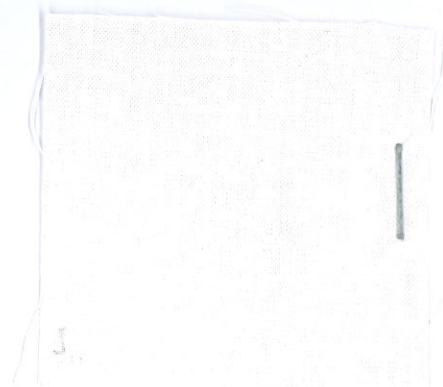
weft 4-5  
dry



warp 4-5  
wet



weft 4-5  
wet



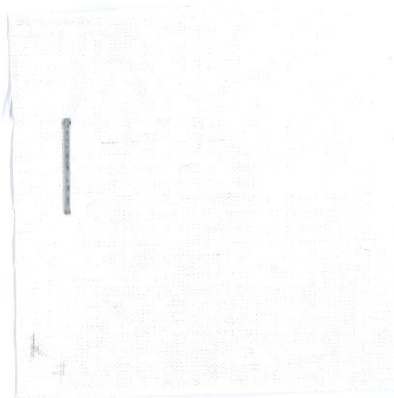
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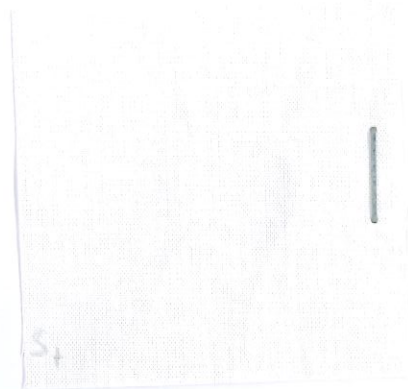
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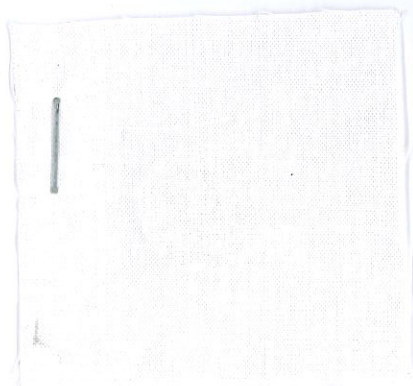
**warp** 4-5  
**dry**



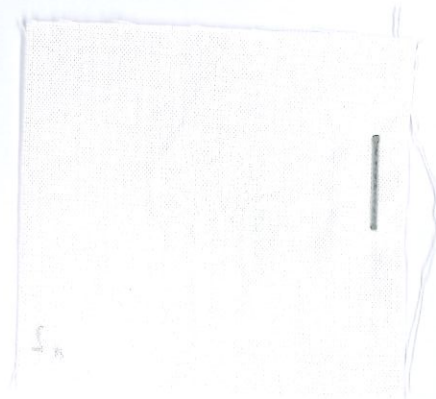
**weft** 4-5  
**dry**



**warp** 4-5  
**wet**



**weft** 4-5  
**wet**



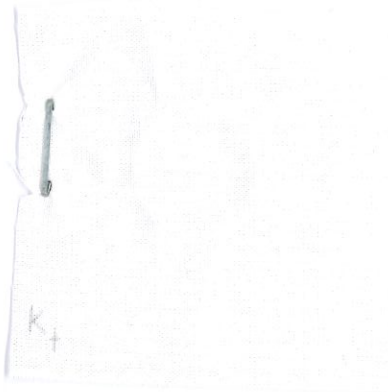
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Attachment

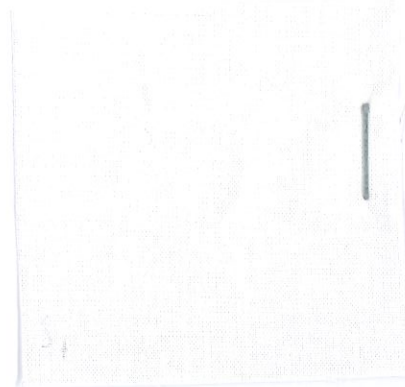
**article:** 600007 Silkwood loose 028

**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

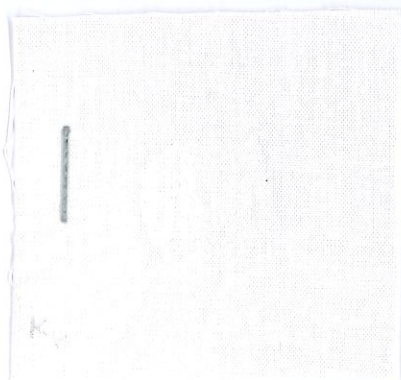
warp  
dry 4-5



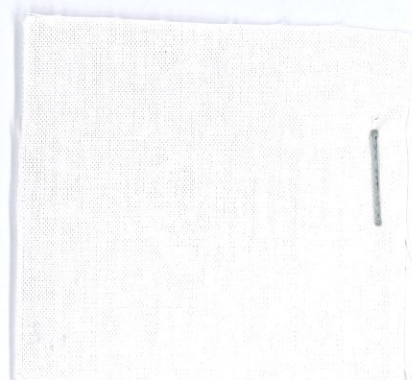
weft  
dry 4-5



warp  
wet 4-5



weft  
wet 4-5



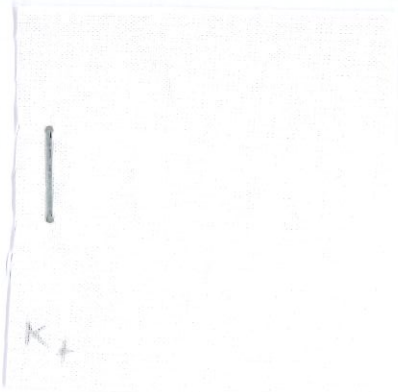
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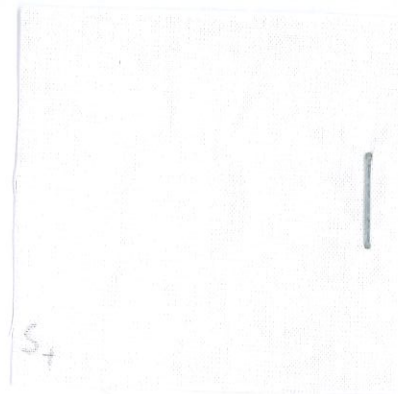
article: 600007 Silkwood loose 029

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

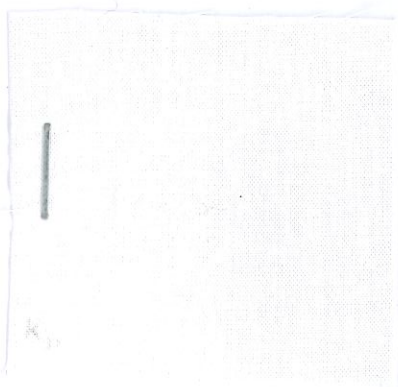
warp  
dry 4-5



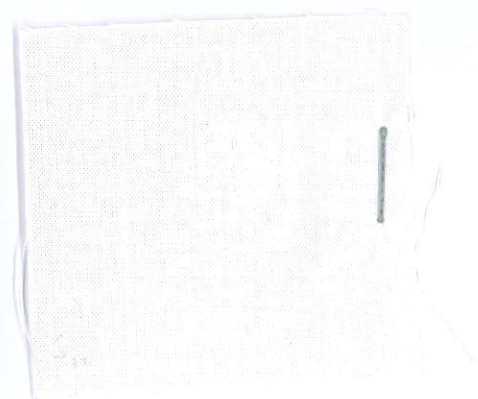
weft  
dry 4-5



warp  
wet 4-5



weft  
wet 4-5



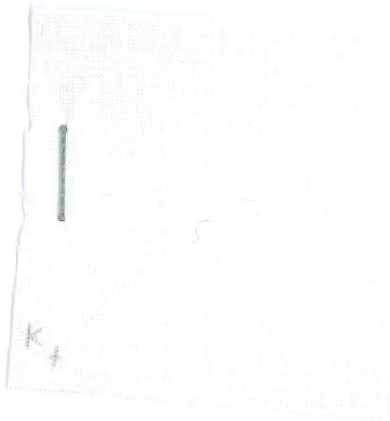
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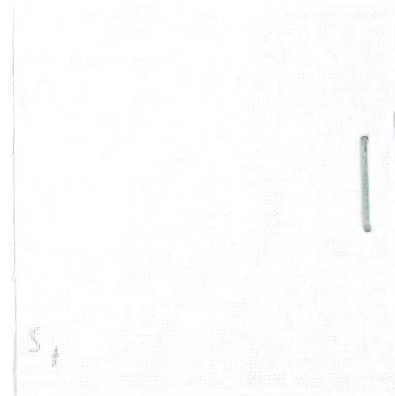
article: 600007 Silkwood loose 030

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

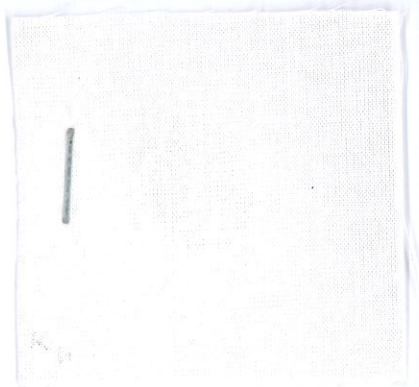
warp dry 4-5



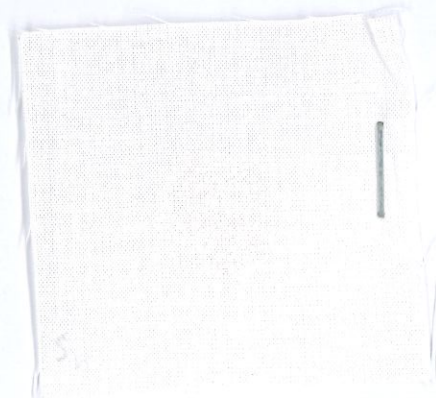
weft dry 4-5



warp wet 4-5



weft wet 4-5



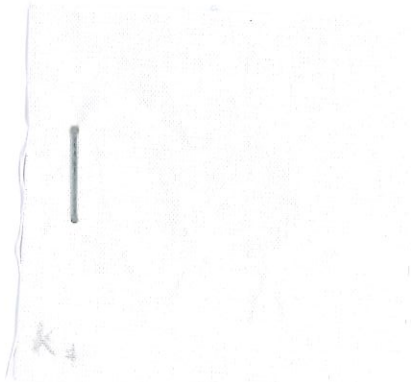
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Attachment

article: 600007 Silkwood loose 031

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

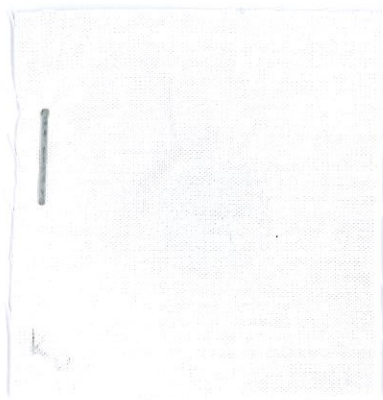
warp  
dry 4.5



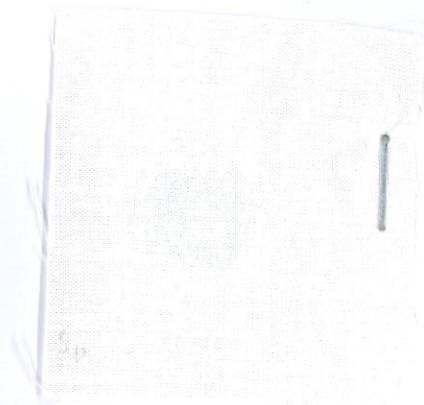
weft  
dry 4.5



warp  
wet 4.5



weft  
wet 4.5



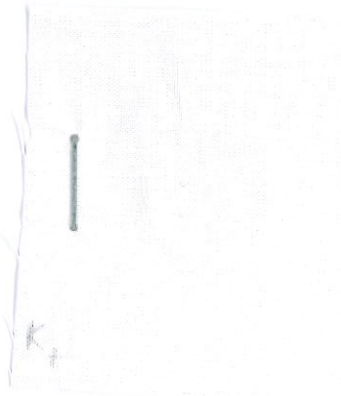
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Attachment

article: 600007 Silkwood loose 032

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

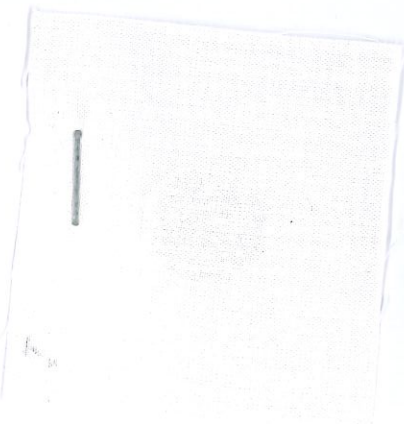
warp  
dry 4-5



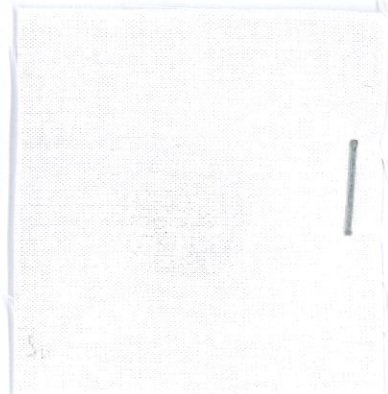
weft  
dry 4-5



warp  
wet 4-5



weft  
wet 4-5



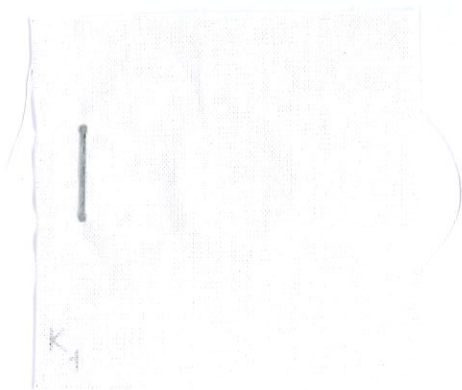
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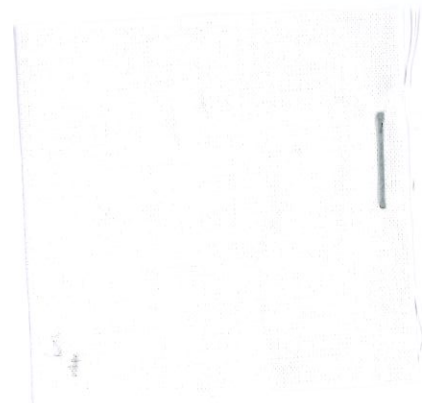
article: 600007 Silkwood loose 033

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

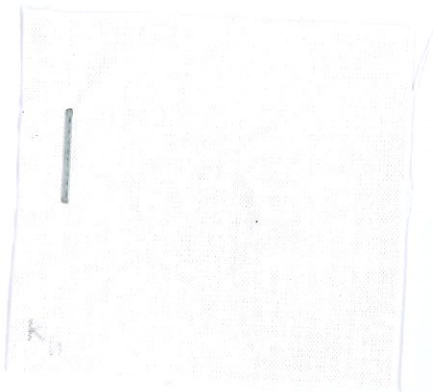
warp  
dry 4-5



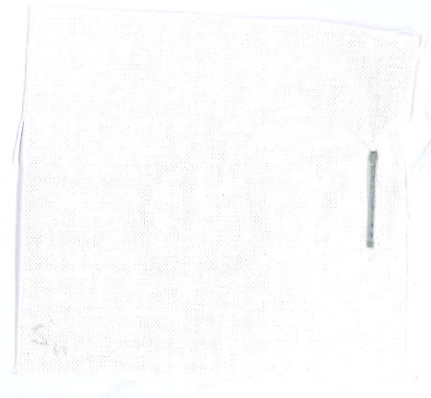
weft  
dry 4-5



warp  
wet 4-5



weft  
wet 4-5



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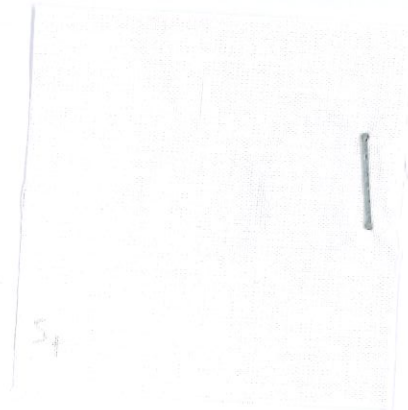
article: 600007 Silkwood loose 034

method: Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

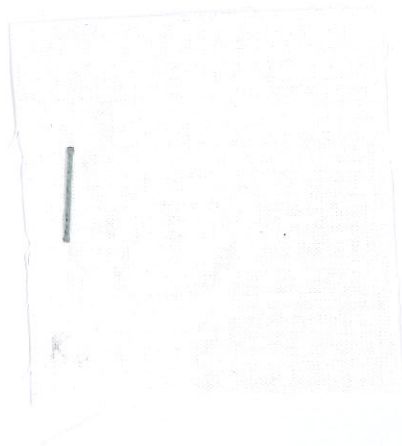
warp dry 4-5



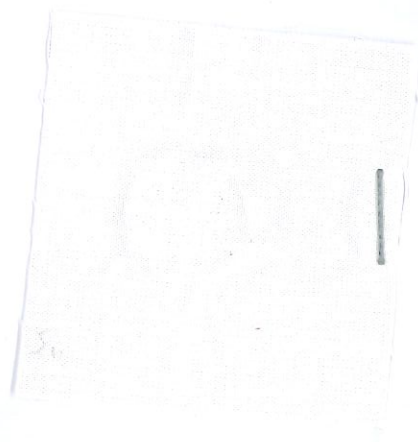
weft dry 4-5



warp wet 4-5



weft wet 4-5

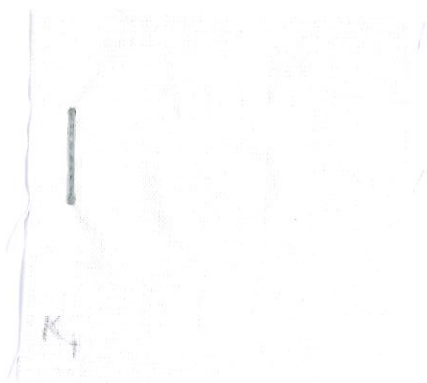


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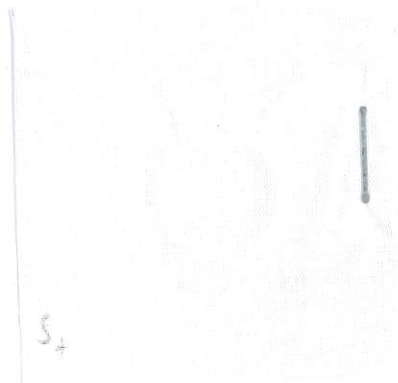
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**article:** 600007 Silkwood loose 035  
**method:** Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing DIN EN ISO 105-X12:2016-11

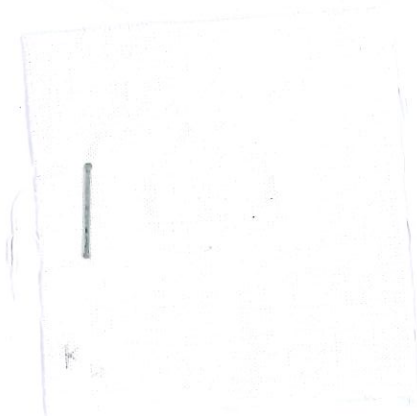
**warp** 4-5  
**dry**



**weft** 4-5  
**dry**



**warp** 4-5  
**wet**



**weft** 4-5  
**wet**

