JYSK STANDARD

Textile requirements

Scope

This standard describes JYSK requirements for textiles.

Change-log

Section	Changes
3	Added chapter about textile products sold as Personal Protective Equipment (PPE).
6.16	Absorbency description is also valid for tea towels.

Contents

1 Chemical contents in textiles 3
2 Labelling and marking of fibre composition 3
2.1 Use of “other fibres” designation 3
2.2 Use of “mixed fibres” designation 3
2.3 Use of "non-textile parts of animal origin" 3
3 Personal Protective Equipment (PPE) 3
4 Fiber composition tolerances 4
4.1 Tolerance examples *(Informative only)* 4
5 Textile Quality Requirements 5
5.1 Testing 5
5.1.1 Test preparation 5
5.2 General textile quality requirements 5
6 Test methods 6
6.1 Size and dimensional stability to washing and drying 6
6.1.1 Measurement method - Flat made-up article 7
6.1.2 Measurement method - Mattress pads 7
6.1.3 Measurement method - Complicated products 7
6.2 GSM/Weight 8
6.3 Yarn count 8
6.4 Thread count 8
6.5 Tensile strength 8
6.6 Tear strength 8
6.7 Pilling resistance 9
6.8 Color fastness to water 9
6.9 Color fastness to perspiration 9
6.10 Color fastness to rubbing 9
6.11 Color fastness to light 10
6.12 Color fastness to washing 10
6.13 Color fastness to dry cleaning 10
6.14 Ignitability 10
6.15 Pile retention 11
6.16 Absorbency (Towels and tea towels) 11
6.17 Color migration to PVC 11
6.18 Bursting strength 11
6.19 Skew and bow 11

1 Chemical contents in textiles

All textiles, and parts of textiles, including decoration and accessories and the like, must be produced according to Standard 100 by OEKO-TEX and comply with JYSK OEKO-TEX requirements in *General Requirements*, and the limits in the relevant product classes in *Annex 4 and 6.*

Note: JYSK will randomly test up against these limits for all types of products containing textiles.

2 Labelling and marking of fibre composition

All products containing textiles must be labelled and marked to comply with *Regulation (EU) No 1007/2011* in accordance with JYSK's instructions and *JYSK 6004*.

2.1 Use of "other fibres" designation

Use of the designation "*other fibres*" according to *Article 9(2)* must be approved by *JYSK C&Q* before first application.

2.2 Use of "mixed fibres" designation

Use of the designation "*mixed fibres*" or "*unspecified textile composition*" according to *Article 9(4)* must be approved by *JYSK C&Q* before first application.

2.3 Use of "non-textile parts of animal origin"

Use of the designation "Contains non-textile parts of animal origin" according to *Article 12* must be approved by *JYSK C&Q* before first application.

3 Personal Protective Equipment (PPE)

Textile products sold as Personal Protective Equipment, such as pot holders, oven- and barbeque gloves, garden gloves must comply with requirements regarding The Personal Protective Equipment Regulation (PPE) in accordance with *JYSK General Requirements*.

4 Fiber composition tolerances

The fiber composition must be specified in % using whole numbers for all textile components.
Note: Do not apply percentages to non-fiber materials! - See '*Example 4*' in *4.1*.

Specified compositions must comply with *Table 1*.

Specified content	Tolerance	Test method
≥6%	±3,0%	***ISO/TR 11827*** and ***ISO 1833*** series
5%	±2,5%	
4%	±2,0%	
3%	±1,5%	
2%	±1,0%	
1%	±0,5%	
100% (Pure fibre)	±0% (Virgin material) +0%/-0,5% (Recycled material)	

Table 1 – Tolerances to specified composition

4.1 Tolerance examples *(Informative only)*

Specified content	Tolerated contents	
80% Cotton / 20% Polyester	Cotton: 77% to 83%	(80±3,0%)
	Polyester: 17% to 23%	(20±3,0%)

Example 1

Specified content	Tolerated contents	
98% Cotton / 2% Elastane	Cotton: 97% to 99%	The cotton is de-facto subject to the ±1,0% tolerance of the Elastane.
	Elastane: 1% to 3%	(2±1,0%)

Example 2

Specified content	Tolerated contents	
80% Polyester / 15% Polypropylene / 5% Viscose	Polyester: 77% to 83%	(80±3,0%)
	Polypropylene: 12% to 18%	(15±3,0%)
	Viscose: 2,5% to 7,5%	(5±2,5%)

Example 3

Specified content	Tolerated contents	
Main surface: 100% Polyester Backing: Latex	Polyester: 100%	(100±0%) (Virgin material)
	Latex	Fiber tolerance does not apply as the material is not in fiber form.

Example 4 - A virgin polyester bath mat with latex backing

5 Textile Quality Requirements

Products containing textiles must comply with the textile quality requirements stated in JYSK standards or stated by the Category Manager (*CAM*).

5.1 Testing

Suppliers must provide a copy of test reports if required by JYSK.
Note: JYSK will randomly test up against the quality requirements.

5.1.1 Test preparation

Samples must be prepared for testing according to ***ISO 139***.

5.2 General textile quality requirements

If no textile quality requirements are stated in JYSK standards or stated by *CAM* products containing textile must comply with *Table 2*.

Requirement:					**Test method:**
Size	Before washing (original)	+5%/0%			According to 6.1
	After washing and drying	+5%/-5%			
GSM / Weight		Agreed specification +10%/-5%			According to 6.2
Yarn count		Agreed specification ±5%			According to 6.3
Thread count		Agreed specification ±2%			According to 6.4
Tensile strength		≥Agreed specification			According to 6.5
Tear strength		≥Agreed specification			According to 6.6
Pilling		*Woven fabrics*:	≥3-4		According to 6.7
		Knitted fabrics:	*Natural fibres*:	≥3-4	
			Man-made fibres:	*Filament yarns*: ≥3-4 *Staple yarns*: ≥3	
Color fastness:	Water	≥3 (≥3-4 for OEKO-TEX product class I)			According to 6.8
	Acidic perspiration	≥3-4			According to 6.9
	Alkaline perspiration	≥3-4			According to 6.9
	Rubbing	Dry: ≥4 Wet: ≥3-4			According to 6.10
	Saliva and perspiration	Baby: *Fast*			***LMBG 82.10-1***
	Light	≥3-4			According to 6.11
	Washing (As applicable)	≥3-4			According to 6.12
	Dry cleaning (As applicable)	≥3-4			According to 6.13
	Ironing (As applicable)	≥3-4			***ISO 105 X11***
Ignitability		Must comply with specified requirement			According to 6.14

Table 2 – General textile quality requirements

6 Test methods

6.1 Size and dimensional stability to washing and drying

Measure the product in original condition and again after washing and drying according to ***ISO 6330***.

Configuration of *ISO 6330*	
Washing machine type	Type A
Washing and drying procedure	According to specified for the product
Detergent	Non-phosphate reference detergent 3 *(ECE reference detergent 98 without optical brightener)*

Assessment methods of different products		
Product type	**Measurement method**	**Tolerance**
Flat made-up article	according to *6.1.1*	% of nominal size specification: $\frac{x_m - x_n}{x_n} \cdot 100$ Where: x_n is the nominal dimension $x_m$is the measured dimension
Mattress pads	according to *6.1.2*	
Complicated textile products e.g.: • Clothes / Garments • Products specified according to measurement point diagram	according to *6.1.3*	Initial size: According to tolerances stated in specification for product (e.g. measurement point diagram or made up instruction) Size after washing and drying: Maximum dimensional change in %: $\frac{x_t - x_o}{x_o} \cdot 100$ Where: x_o is the nominal dimension $x_t$is the measured dimension (**Note:** same as ***ISO 5077***)

6.1.1 Measurement method - Flat made-up article

Measure according to the procedure for *flat made-up articles* in ***ISO 3759***.

For round/circular items measure the *diameter* instead of *overall length* and *overall width*.

6.1.2 Measurement method - Mattress pads

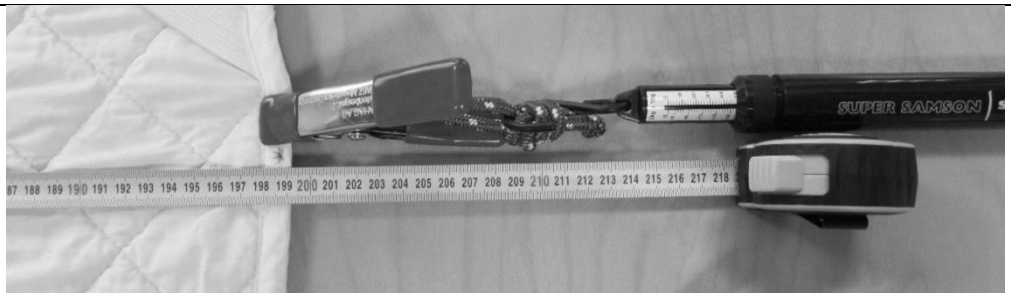
Measure according to the procedure for *flat made-up articles* in ***ISO 3759*** under a tension of 5 Newton to remove wrinkles and bulges.
The *overall length* and *overall width* must be measured in three evenly distributed locations.

Procedure for modified method:

- Make a regular measurement without tension (according to *6.1.1*) before starting the modified procedure.
- The clamping method used to apply tension must trap as little fabric as possible.
- Tension must be applied slowly and not exceed the specified tension value at any time.
- Measurements must be taken within one minute after tension has been applied.
- The mattress pad must not be stretched excessively prior to application of tension.

Photo-examples of modified setup

Fixed end



Tensioned end

6.1.3 Measurement method - Complicated products

Measure according to the procedure for *garments* in ***ISO 3759***.

6.2 GSM/Weight

Type of fabric	*Fabrics / fiber sheets*	*Loose fibers*
Test method	***EN 12127*** or ***ISO 3801 - Method 5***	Weigh the total amount of fiber.
Specification unit	[g/m^2]	[g] or [kg]
Tolerance	% of nominal specification	

6.3 Yarn count

Type of fabric	*Woven*	*Knitted*
Test method	***ISO 7211-5 – Method A***	***BS 5441*** *Section 11* for *weft knitted* *Section 15* for *warp knitted*
Specification unit	Report test results in the following units: • D (Denier: g / 900 m) • Ne (English Cotton Count: 840 yard / pound) • Tex (g/km) • Nm (1000/Tex)	
Tolerance	% of nominal specification	

6.4 Thread count

Type of fabric	*Woven*	*Knitted*
Test method	***ISO 7211-2***	***BS 5441*** *Section 8* for *weft knitted* *Section 13* for *warp knitted*
Specification unit	*Threads/cm* or *Threads/inch*	*Wales and courses/cm* or *Wales and courses/inch*
Tolerance	% of nominal specification	

6.5 Tensile strength

Test method	*Woven* According to ***ISO 13934-1***	*Nonwoven* According to ***ISO 9073-3***
Specification unit	Newton [N]	
Tolerance	Minimum requirement	

6.6 Tear strength

Test method	*Woven* According to ***ISO 13937-2***	*Nonwoven* According to ***ISO 9073-4***
Specification unit	Newton [N]	
Tolerance	Minimum requirement	

6.7 Pilling resistance

Test method	According to ***ISO 12945-2*** according to the categories described in ***Annex A***. Number of rubs: Upholstery: According to agreement with *JYSK C&Q* Woven and knitted: 2000 Abradant type: Upholstery: *Wool abradant fabric* Woven and knitted: *Face/Face* Samples must: • be pre-treated according to the care instructions of the product. • obtain the specified minimum grading at all assessment stages.
Specification unit	Grade 1-5 (Higher is better - Half grades are possible)
Tolerance	Minimum requirement

6.8 Color fastness to water

Test method	***ISO 105-E01*** using *multifibre adjacent* Note *color change* and *stain*
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)
Tolerance	Minimum requirement

6.9 Color fastness to perspiration

Test method	***ISO 105-E04*** Test for *alkaline* and *acidic* perspiration using *multifibre adjacent* Note *color change* and *stain*
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)
Tolerance	Minimum requirement

6.10 Color fastness to rubbing

Test method	***ISO 105-X12*** Sample can be tested Dry and/or Wet
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)
Tolerance	Minimum requirement

6.11 Color fastness to light

Test method	Standard	***ISO 105-B02***
	Method	*1*, *2* or *3* In case of dispute *method 3* must be used.
	Exposure condition	*1A*
Specification unit	Color fastness rating 1-8 [Numerical rating] (Higher is better - Half grades are not possible)	
Tolerance	Minimum requirement	

6.12 Color fastness to washing

Test method	***ISO 105-C06*** For multicolored samples all colors must be tested For every sample tested note result for color change of the sample and staining for every adjacent.		
	Configuration	Type of adjacent	*Multifibre*
		Detergent	*ECE Detergent with Phosphates*
		Steel balls	Yes
		Souring	No
		Test number dependent on washing temperature	≤40°C → A2S 50°C → B2S 60°C → C2S 70°C → D2S 95°C → E2S
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)		
Tolerance	Minimum requirement		

6.13 Color fastness to dry cleaning

Test method	***ISO 105-D01*** using *multifibre adjacent*
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)
Tolerance	Minimum requirement

6.14 Ignitability

Product type	**Requirement**

• Bedding items
  • Bolsters/covers
  • Pillows
  • Duvets/Quilts
  • Bed throws/blankets
  • Sheets
• Cushions and cushion covers
	Must pass testing (show *Non-ignition*) according to ***EN ISO 12952-1***

6.15 Pile retention

Test method	*Terry fabric in towels, bathrobes and washing cloths.* Test according to ***EN 15598*** after washing and drying the product according to ***ISO 6330*** and care instructions**.**
Specification unit	Newtons [N]
Tolerance	Minimum requirement

6.16 Absorbency (Towels and tea towels)

Test method	***EN 14697 – Annex B***
Specification unit	Immersion time in seconds
Tolerance	Maximum requirement

6.17 Color migration to PVC

Test method	***ISO 105-X10***
Specification unit	Numerical rating 1-5 (9-step scale - Higher is better)
Tolerance	Minimum requirement

6.18 Bursting strength

Test method	*Knitted, woven, seams* According to ***ISO 13938-1*** or ***ISO 13938-2*** Configuration: Test area must be applied as applicable in the following priority: 1. 7,3 cm^2 (Ø30,5 mm) 2. 10 cm^2 (Ø35,7 mm) 3. 50 cm^2 (Ø79,8 mm) 4. 100 cm^2 (Ø112,8 mm)	*Nonwoven* According to ***ISO 9073-5***
Specification unit	Kilopascal [kPa] (N/mm^3)	
Tolerance	Minimum requirement	

6.19 Skew and bow

Test method	***ISO 13015***
Specification unit	Skew: % Bow: Millimeters [mm]
Tolerance	Maximum requirement