



SLOVENSKI STANDARD
kSIST-TS prCEN/TS 14237:2021
01-junij-2021

Tekstilije za zdravstveno in socialno oskrbo

Textiles for healthcare and social services facilities

Textilien für Einrichtungen des Gesundheitswesens und von sozialen Diensten

Textiles dans les établissements de santé et de services sociaux

Ta slovenski standard je istoveten z: FprCEN/TS 14237

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ICS:

11.140	Oprema bolnišnic	Hospital equipment
59.080.30	Tkanine	Textile fabrics

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ICS

Will supersede CEN/TS 14237:2015

English Version

Textiles for healthcare and social services facilities

Textiles dans les établissements de santé et de services
sociaux

Textilien für Einrichtungen des Gesundheitswesens
und von sozialen Diensten

This draft Technical Specification is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 248.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a Technical Specification. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a Technical Specification.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (FprCEN/TS 14237:2021) has been prepared by Technical Committee CEN/TC 248 “Textiles and textile products”, the secretariat of which is held by BSI.

This document is currently submitted to the Vote on TS.

This document will supersede CEN/TS 14237:2015.

In comparison with the previous edition, the following technical modifications have been made:

- The normative references and bibliography were updated.
- Requirements were modified following past experiences with the use of CEN/TS 14237:2015.
- Guidance about children’s cot duvets (excluding duvet covers) was added.

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Introduction

This document provides minimum specifications for the purchase of unused textiles for healthcare and social service facilities. It is intended to assist healthcare and social services organisations select textiles products produced from these textiles and which they intend to be maintained by industrial laundering.

It is recognized that textile materials are currently available which outperform these minimum specifications in this document and it is unable to provide information to correlate these minimum specifications with textile life and value in typical industrial processing. Furthermore, these minimum specifications cannot be correlated with textile life as measure by industrial launder-use trials. Consequently, it is strongly recommended that purchasers discuss the quality of materials and their expected performance requirement with any prospective laundry company prior to making a purchase. Moreover, there is a need for safety of patients and clients which needs to be ensured by hygienic cleanliness according to EN 14065, which is not reachable by domestic washing.

Production technologies in laundries places a requirement for high performance characteristics on the textile to ensure sufficient durability, and which could increase acquisition costs, It is therefore encouraged to carry out some trial processing in the prospective laundry, to better assess textile life and lifecycle costing.

The properties, references and specifications for textiles shown in Tables 1 to 9 provide guidance as a starting point for products to be industrially laundered. It is possible that National Standards may set a higher level of characteristics for textile products.

This document only addresses the properties of the materials used, not the constructions.

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1 Scope

This document recommends characteristics, test methods and minimum performance specifications for unused textile for the healthcare and social service facilities (hospitals, residential care homes, etc.) to give guidance on the suitability of products intended to be maintained by industrial laundering.

This document is not applicable to surgical textiles under the Medical Devices Directive nor protective clothing under the PPE Directive.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Products

NOTE This document classifies the requirements for the fabrics according to its use in the following product groups.

3.1.1

accessories

components different from the main materials of the product (e.g. cuffs, buttons, sewing thread, press studs, zippers, etc.)

3.1.2

baby clothing

garment being provided by the hospital that is worn by babies during their stay

3.1.3

bed textiles

two-dimensional textile such as sheets, pillow covers, secondary covers, mattress covers, draw sheets, bed spreads

3.1.4

blanket

covering used on beds to provide thermal comfort

3.1.5

curtain

piece of hanging cloth that can be drawn to cover a window or to provide a screen

3.1.6

encasing

fully fitting article which covers all faces of the mattress

3.1.7

mattress protector against liquids

mattress cover impermeable to liquids

FprCEN/TS 14237:2021 (E)**3.1.8****patient's clothing**

garment being provided by the hospital that is worn by a patient during a stay

3.1.9**pillow**

cloth bag filled with soft material used for patients support

3.1.10**quilt**

cover made of two layers of cloth with soft insulating material in-between to provide thermal comfort

3.1.11**staff**

person charged with (part of) medical treatment of a patient or the performance of a medical duty

3.1.12**staff clothing**

over-garment without a specific protective function worn by the staff

3.1.13**towels**

piece of cloth used for drying a person

3.2 Properties**3.2.1****air permeability**

velocity of an air flow passing perpendicularly through a test specimen under specified conditions of test area, pressure drop and time

[SOURCE: EN ISO 9237:1995, 3.1]

3.2.2**bursting strength****strength at burst**

pressure obtained by subtracting the diaphragm pressure from the mean bursting pressure

[SOURCE: EN ISO 13938-1:1999, 3.3]

3.2.3**colour fastness**

resistance of the colour of textiles to the different agents to which these materials may be exposed during manufacture and their subsequent use

Note 1 to entry: The change in colour and staining of undyed adjacent fabrics are assessed as fastness ratings.

Note 2 to entry: See EN ISO 105-A01.

3.2.4**dimensional change**

change in length and/or width of fabrics, garments or other textile articles which may occur when subjected to an appropriate combination of specified washing and drying procedures

Note 1 to entry: See EN ISO 5077.

3.2.5**burning behaviour**

property of fabrics whereby flaming combustion is slowed, terminated or prevented

Note 1 to entry: See EN ISO 12952-1, EN ISO 12952-2, EN 13773 and EN 16779-1.

3.2.6**liquid absorbency time**

<wettability> time required for a test specimen of fabric to become completely wetted by the test liquid and imbibe test liquid into its interior structure

[SOURCE: EN 1644-1:1997, B.1]

3.2.7**liquid absorptive capacity**

<wettability> mass of liquid absorbed per unit mass of the fabric, expressed as a percentage, after either a standard immersion time or after the time needed to completely wet the fabric and after drainage has occurred

[SOURCE: EN 1644-1:1997, C.1, modified — The term “fabric” is used instead of the term “nonwoven” in the present definition.]

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3.2.8**pilling**

generation of pills over the surface of the fabric

[SOURCE: EN ISO 12945-1:2000, 3.3]

3.2.9**tensile strength**

maximum tensile force recorded in extending a test-piece to breaking point, the tensile force recorded at the moment of rupture

Note 1 to entry: The tensile strength and tensile strength at break may be different if, after yield, the elongation continues and is accompanied by a drop in force resulting in tensile strength at break being lower than tensile strength.

3.2.10**thermal resistance**

R_{ct}

ratio of the temperature difference between two faces of a test specimen to the rate of flow of heat per unit area normal to the faces

Note 1 to entry: It is analogous to electrical resistance in the case of current flow through an electrical conductor.

[SOURCE: EN ISO 11092:2014, 2.1, modified — The definition itself had to be redrafted, the original notes to the entry were deleted and the present Note 1 to entry was added.]

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3.2.11

water penetration

hydrostatic head supported by a fabric

Note 1 to entry: It is measure of the opposition to the passage of water through the fabric.

Note 2 to entry: See EN 20811.

3.2.12

water vapour resistance

R_{et}

water-vapour pressure difference between the two faces of a material divided by the resultant evaporative heat flux per unit area in the direction of the gradient

Note 1 to entry: The evaporative heat flux may consist of both diffusive and convective components.

[SOURCE: EN ISO 11092:2014, 2.2, modified. The present Note 1 to entry was shortened and Note 2 to the entry was deleted.]

4 Properties, references and requirements

The following tables for properties, references and requirements of product groups are recommended as the basis for agreements between the supplier and customer.

Table 1 – Bed textiles

Properties	References	Requirements
Colour fastness		
Light	EN ISO 105-B02	≥ 4
Washing	EN ISO 105-C06 E2 S	Change ≥ 4 Stain ≥ 3–4
Bleach (peroxide)	EN ISO 105-N02	≥ 4
Bleach (hypochlorite) (not for FR treated fabrics)	EN 20105-N01	≥ 4
Rubbing	EN ISO 105-X12	Dry ≥ 3–4 Wet ≥ 3
Perspiration	EN ISO 105-E04	Change ≥ 4 Stain ≥ 3–4
Dry heat (for printed polyester)	EN ISO 105-P01	≥ 4
Dimensional change		

Properties	References	Requirements		
Washing + Processing	EN ISO 5077 (max. %) Prior treatment: EN ISO 6330, 3 washing cycles programme 4N or 6N, plus drying process F for knitted fabrics	Woven fabrics	WARP	WEFT
			±5 %	±5 %
		Knitted fabrics	LENGTH	WIDTH
			+2 % to -5 %	+5 % to -8 %
Tensile strength (for woven fabrics only)	EN ISO 13934-1		WARP	WEFT
		Basic requirements	≥ 400 N	≥ 400 N
Bursting strength (for knitted fabrics only)	EN ISO 13938-1, or EN ISO 13938-2	(test specimen 7,3 cm ²) ≥ 200 kPa		
Burning behaviour (where specified)	EN ISO 12952-1, EN ISO 12952-2,	Shall not ignite ^a		
Pilling	Prior treatment: see Dimensional Change - Washing EN ISO 12945-2 (2000 rubs)	≥ 4 (woven fabrics), ≥ 3 (knitted fabrics)		
Additional properties	References https://standards.iteh.ai/catalog/standards/sist/f4ff82ed-8a7c-4059-984b-4e6d447a5b0/ksist-ts-prcen-ts-14237-2021	Recommendations		
Health, safety properties		According to European and/or national regulations		
Making up + Accessories	ISO 4915; ISO 4916 EN 12590 EN ISO 13936-1 and EN ISO 13936-2	Construction, accessories and making up should be appropriate to product and its intended use. Coloured threads to be colourfast to the same level as the basic product. Industrially launderable		
^a Where burning behaviour properties are not inherent, the producer shall certify the durability in laundering and the test method used.				